

GenCore version 5.1.8  
Copyright (c) 1993 - 2006 Bioacceleration Ltd.

OW nucleic - nucleic search, using sw model

Run on: May 11, 2006, 03:15:27 ; Search time 1774 Seconds  
(without alignments) 11728.957 Million cell updates/sec

Title: US-10-760-320A-102  
Perfect score: 3122  
Sequence: 1 actagaggttggttagtcgc.....acagagcaagactctgtctc 3122

Scoring table: OLIGO\_NUC  
Gapop 60.0 , Gapept 60.0

Searched: 4996997 seqs, 332346308 residues

Word size : 1

Total number of hits satisfying chosen parameters: 9993364

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Listing first 500 summaries

Database : N\_Geneseq\_21:\*

- 1: geneseqn1980s:\*
- 2: geneseqn1990s:\*
- 3: geneseqn2000s:\*
- 4: geneseqn2001s:\*
- 5: geneseqn2001bs:\*
- 6: geneseqn2002as:\*
- 7: geneseqn2002bs:\*
- 8: geneseqn2003as:\*
- 9: geneseqn2003bs:\*
- 10: geneseqn2003cs:\*
- 11: geneseqn2003ds:\*
- 12: geneseqn2004as:\*
- 13: geneseqn2004bs:\*
- 14: geneseqn2005s:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	3122	100.0	3122	13 ADO67462	Ad62941 Novel hum
2	1952	62.5	2327	13 ADR07941	Ad07462 Pull leng
3	1009	32.3	1009	4 AAK83424	Aak83424 Human imm
4	1009	32.3	1009	4 AAK83423	Aak83423 Human imm
5	907	29.1	1009	4 AAK83422	Aak83422 Human imm
6	748	24.0	850	5 AAS93728	Aas93728 DNA encod
7	657	21.0	708	12 ACH87504	ACH87508 DNA encod
8	524	16.8	524	12 ACH7793	ACH7793 Human gen
9	504	16.1	976	4 AAK62785	Aak62785 Human imm
10	471	15.1	476	4 AAK83430	Aak83430 Human imm
11	471	15.1	476	4 AAK83427	Aak83427 Human imm
12	427	13.7	476	4 AAK83426	Aak83426 Human imm
13	241	7.7	1349	5 AAS72508	Aas72508 DNA encod
14	60	1.9	60	6 AAS50582	Aas50582 Human epl
15	53	1.7	175737	6 AAK83571	Aak83571 Human cDN
16	53	1.7	175737	10 ADL13596	Adl13596 Osteoarth
17	53	1.7	175737	12 ADQ18934	Adq18934 Human sof
18	52	1.7	381	3 AAC03795	Aac03795 Human sec
19	52	1.7	1437	5 AAS78337	Aas78337 DNA encod

c	20	1.7	9620	4 AAL06207	Aal06207 Human rep
c	21	1.7	92139	6 AAD31364	Aad31364 92Kb gene
c	22	1.7	130320	10 ADP11613	Adp11613 Human scl
c	23	1.7	220756	12 ADG66300	Adg66300 Human SKR
c	24	1.7	233380	11 ACN44282	Acn44282 Human gen
c	25	1.6	832	3 AAF21833	Aaf21833 Human bre
c	26	1.6	2791	5 AAS93730	Aas93730 DNA encod
c	27	1.6	23139	14 AEA61112	Aea61112 Human SLC
c	28	1.6	30393	4 AAK67239	Aak67239 Human imm
c	29	1.6	68200	14 ADX80722	Adx80722 Human man
c	30	1.6	215221	11 ACN44754	Acn44754 Human gen
c	31	1.6	255	3 AAC24464	Aac24464 Human sec
c	32	1.6	288	12 ADNA1748	Adna1748 Novel hum
c	33	1.6	301	4 AAK84092	Aak84092 Human imm
c	34	1.6	432	5 AAS93725	Aas93725 DNA encod
c	35	1.6	1001	13 ADQ81170	Adq81170 Human phe
c	36	1.6	2407	6 AAS58182	Aas58182 cDNA encd
c	37	1.6	8705	5 ABA82624	Abas82624 Human HBM
c	38	1.6	8705	8 ACC45365	Acc45365 Human HBM
c	39	1.6	8705	10 ADB98065	Adb98065 HBW-relat
c	40	1.6	8705	10 ADB82434	Adb82434 Human DNA
c	41	1.6	8705	13 ADRI6928	Adri6928 BAC clone
c	42	1.6	8705	13 ADRA7579	Adra7579 BAC clone
c	43	1.6	8705	14 AEB69308	Aeb69308 Human H1g
c	44	1.6	10396	4 AAK86119	Aak86119 Human imm
c	45	1.6	11234	5 ABA20857	Abas20857 Human ner
c	46	1.6	13026	4 AAK80184	Aak80184 Human imm
c	47	1.6	13026	4 AAK80185	Aak80185 Human imm
c	48	1.6	31474	4 AAL05461	Aal05461 Human rep
c	49	1.6	31474	4 ABL98314	Abi98314 Human tes
c	50	1.6	32189	5 AAS30115	Aas30115 Human lun
c	51	1.6	32189	10 ADB33452	Adb33452 Human nov
c	52	1.6	32193	4 AAD16595	Aad16595 Human nov
c	53	1.6	32193	4 AAL36258	Aal36258 Human mus
c	54	1.6	32193	8 AAB59246	Abas59246 cDNA encd
c	55	1.6	32193	10 ADG62943	Adg62943 Genomic D
c	56	1.6	32193	12 ADJ29996	Adj29996 Human mus
c	57	1.6	32221	5 AAS30113	Aas30113 Human lun
c	58	1.6	32221	10 ADB33450	Adb33450 Human nov
c	59	1.6	36305	6 AAK22783	Aak22783 Human h1g
c	60	1.6	66973	11 ACN44230	Acn44230 Human gen
c	61	1.6	156843	11 ACN44786	Acn44786 Human gen
c	62	1.6	276820	11 ADP75188	Adp75188 Human ADA
c	63	1.6	95	4 AAK77204	Aak77204 Human imm
c	64	1.6	95	4 AAK77203	Aak77203 Human imm
c	65	1.6	272	4 AAK86736	Aak86736 Human imm
c	66	1.6	281	4 AAK86737	Aak86737 Human imm
c	67	1.6	21477	4 AAK66626	Aak66626 Human imm
c	68	1.6	85920	14 AD213418	Ad213418 Human can
c	69	1.6	243428	12 ADP51132	Adp51132 Human P-R
c	70	1.5	4316	4 AAK82458	Aak82458 Human imm
c	71	1.5	4316	4 AAK82461	Aak82461 Human imm
c	72	1.5	4317	4 AAK82456	Aak82456 Human imm
c	73	1.5	52242	9 ADA02666	Ada02666 Human MDM
c	74	1.5	52242	10 ADB72404	Adb72404 Human MDM
c	75	1.5	53779	14 AEA61175	Aea61175 Human ENT
c	76	1.5	53779	14 AEA61175	Aea61175 Human ENT
c	77	1.5	181684	11 ACN44374	Acn44374 Human gen
c	78	1.5	440	5 ABEV16331	Abev16331 Human pro
c	79	1.5	516	5 ABEV46129	Abev46129 Human pro
c	80	1.5	125515	10 ADL13941	Adl13941 Osteoarth
c	81	1.5	380	14 ADM06065	Adm06065 Human gen
c	82	1.5	405	6 ABL83398	Abi83398 Human ova
c	83	1.5	458	5 ADL43370	Adl43370 Human ova
c	84	1.5	497	5 ABEV60535	Abev60535 Human ova
c	85	1.5	2537	4 AAH18284	Aah18284 Human cDN
c	86	1.5	6530	14 ADY15647	Ady15647 DNA encod
c	87	1.5	7001	10 ACC82887	Acc82887 Human thyl
c	88	1.5	13409	4 AAL06913	Aal06913 Human rep
c	89	1.5	13409	4 ABA08135	Abas08135 Human ova
c	90	1.5	18501	4 ABAK43029	Abak43029 Genomic s
c	91	1.5	18501	9 ADB61185	Adb61185 Connectiv
c	92	1.5	18501	10 ADC21019	Adc21019 Human sec

C 93	46	1.5	18501	10	ABT17021	Abt17021 Human sec	166	45	1.4	65277	13	ABD32902	Abd32902 Human can
C 94	46	1.5	18501	10	ABZ68161	Abz68161 Human sec	C 167	45	1.4	73935	11	ACN43386	Acn43386 Human gen
C 95	46	1.5	25001	12	AD181379	Ad181379 Human p2x	C 168	45	1.4	78539	8	ACA64942	ACA64942 Human FRA
C 96	46	1.5	28616	12	ADH36221	Adh36221 Human pur	C 169	45	1.4	89900	12	ADO79404	ADO79404 Human regl
C 97	46	1.5	58000	14	ADZ42284	Adz42284 Human K10	C 170	45	1.4	107543	13	ABD33524	ABD33524 Human can
C 98	46	1.5	58922	13	ABD33407	Abd33407 Human can	C 171	45	1.4	107745	13	ABD33242	ABD33242 Human can
C 99	46	1.5	70271	14	AD212540	Ad212540 Human can	C 172	45	1.4	110000	6	ABL57909_2	ABL57909_2 Human can
C 100	46	1.5	96594	10	ADBS95974	Adbs95974 Human can	C 173	45	1.4	110000	6	ABX08336_03	ABX08336_03 Human can
C 101	46	1.5	96595	9	ADA072726	Ada072726 Human SYK	C 174	45	1.4	110000	8	AAJ52224_2	AAJ52224_2 Human can
C 102	46	1.5	96595	10	ADB72464	Adb72464 Human SYK	C 175	45	1.4	110000	12	ADJ25985_03	ADJ25985_03 Human can
C 103	46	1.5	99100	12	ADO56274	Ado56274 Human cyc	C 176	45	1.4	110000	12	ADN97989_03	ADN97989_03 Human can
C 104	46	1.5	99250	14	ADX80723	Adx80723 Human cyc	C 177	45	1.4	110000	12	ADOS0281_03	ADOS0281_03 Human can
C 105	46	1.5	109661	12	ADQ97818	Adq97818 Human can	C 178	45	1.4	110000	14	ABE85185_03	ABE85185_03 Human can
C 106	46	1.5	110000	10	ABG70447_1	Abg70447_1 Human can	C 179	45	1.4	116561	12	ADQ17592	ADQ17592 Human can
C 107	46	1.5	110000	10	ABT279565_1	Abt279565_1 Human can	C 180	45	1.4	122748	6	ABT10719	ABT10719 Human can
C 108	46	1.5	110000	14	ADZ13631_0	Adz13631 Human can	C 181	45	1.4	129588	10	ADL13909	ADL13909 Human can
C 109	46	1.5	110000	14	ADZ13620_0	Adz13620_0 Human can	C 182	45	1.4	149671	6	ABK84797	ABK84797 Human can
C 110	46	1.5	110000	14	ADZ13747_2	Adz13747_2 Human can	C 183	45	1.4	149671	9	ADB70361	ADB70361 Human can
C 111	46	1.5	117962	8	AAJ54480	AAJ54480 Human CIP	C 184	45	1.4	149671	12	ADJ37140	ADJ37140 Human can
C 112	46	1.5	141463	11	ACN43862	Acn43862 Human gen	C 185	45	1.4	171398	14	ADZ13359	ADZ13359 Human can
C 113	46	1.5	144792	10	ADC87620	Adc87620 Human GPC	C 186	45	1.4	190117	10	ADL13780	ADL13780 Human can
C 114	46	1.5	164772	10	ADL13904	Adl13904 Osteoartrh	C 187	45	1.4	191584	13	ABD33586	ABD33586 Human can
C 115	46	1.5	168821	11	ACN44262	Acn44262 Human gen	C 188	45	1.4	191584	13	ADR67026	ADR67026 Human can
C 116	46	1.5	177866	10	ADL13935	Adl13935 Osteoartrh	C 189	45	1.4	285300	14	ADX98573	ADX98573 Human can
C 117	46	1.5	181257	12	ADF69677	Adf69677 Human SLIC	C 190	45	1.4	300000	10	ADB86352	ADB86352 Human can
C 118	46	1.5	188888	6	ABQ75562	Abq75562 Human rel	C 191	45	1.4	300001	12	ADO14076	ADO14076 Human can
C 119	46	1.5	193672	10	ADL13570	Adl13570 Osteoartrh	C 192	45	1.4	300001	12	ADJ12734	ADJ12734 Human can
C 120	46	1.5	256157	11	ACN44650	Acn44650 Human gen	C 193	45	1.4	307	4	AAK67381	AAK67381 Human can
C 121	46	1.5	256157	11	ACN44650	Acn44650 Human gen	C 194	45	1.4	307	4	AAK74457	AAK74457 Human can
C 122	46	1.5	276276	13	ABD33570	Abd33570 Human can	C 195	45	1.4	139	4	AAK74457	AAK74457 Human can
C 123	46	1.5	276276	11	ACN44350	Acn44350 Human gen	C 196	45	1.4	145	3	AAK74457	AAK74457 Human can
C 124	46	1.5	347814	12	ADO59440	Ado59440 Human can	C 197	45	1.4	182	4	AAK91189	AAK91189 Human can
C 125	46	1.5	145	4	AAJ27638	AAJ27638 DNA encod	C 198	45	1.4	182	5	AAJ32121	AAJ32121 Human can
C 126	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 199	45	1.4	182	5	ABN90476	ABN90476 Human can
C 127	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 200	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 128	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 201	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 129	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 202	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 130	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 203	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 131	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 204	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 132	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 205	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 133	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 206	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 134	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 207	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 135	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 208	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 136	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 209	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 137	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 210	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 138	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 211	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 139	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 212	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 140	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 213	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 141	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 214	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 142	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 215	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 143	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 216	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 144	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 217	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 145	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 218	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 146	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 219	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 147	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 220	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 148	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 221	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 149	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 222	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 150	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 223	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 151	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 224	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 152	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 225	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 153	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 226	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 154	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 227	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 155	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 228	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 156	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 229	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 157	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 230	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 158	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 231	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 159	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 232	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 160	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 233	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 161	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 234	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 162	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 235	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 163	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 236	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 164	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 237	45	1.4	182	11	ADJ15389	ADJ15389 Human can
C 165	46	1.5	145	4	AAK68506	AAK68506 Human imm	C 238	45	1.4	182	11	ADJ15389	ADJ15389 Human can

239	44	1.4	20674	3	AAC58017	Aac58017	Arachidon	312	43	1.4	318	5	ABA18466	AbA18466	Human	ner	
240	44	1.4	23943	12	ADO97942	Ado97942	Human	can	313	43	1.4	354	12	ADN41689	Adn41689	Novel	hum
241	44	1.4	23996	5	ABR18618	AbA18618	Human	ner	314	43	1.4	356	12	ADN41682	Adn41682	Novel	hum
242	44	1.4	24964	6	ABR6595	AbR6595	Human	SA	315	43	1.4	362	4	AAK56485	Aak56485	Human	imm
243	44	1.4	27317	11	ACN45058	Acn45058	Human	gen	316	43	1.4	365	3	AAK16959	Aac16959	Human	sec
244	44	1.4	29832	5	ADM20207	Adm20207	Altermati		317	43	1.4	458	5	ABV50974	Abv50974	Human	pro
245	44	1.4	31808	10	ADC86002	Adc86002	Human	GPC	318	43	1.4	459	9	ACH41651	Ach41651	Human	foe
246	44	1.4	32134	4	AAI99172	Aai99172	Human	exc	319	43	1.4	462	4	AAI91684	Aai91684	Human	pol
247	44	1.4	32134	5	AAI63522	Aai63522	Human	kid	320	43	1.4	490	9	ACH47659	Ach47659	Human	inf
248	44	1.4	35100	4	AAK69767	Aak69767	Human	imm	321	43	1.4	502	5	ABV51461	Abv51461	Human	pro
249	44	1.4	35100	4	AAK65700	Aak65700	Human	imm	322	43	1.4	503	9	ABK41982	AbK41982	CDNA	enco
250	44	1.4	35115	4	AAK69766	Aak69766	Human	imm	323	43	1.4	503	9	ADB59649	AdB59649	Connectiv	
251	44	1.4	35115	4	AAK65699	Aak65699	Human	imm	324	43	1.4	538	4	AAI86635	Aai86635	Human	pol
252	44	1.4	38186	2	AAZ32028	Aaz32028	Human	MET	325	43	1.4	600	4	AAK71676	Aak71676	Human	imm
253	44	1.4	38186	2	AAZ32028	Aaz32028	Human	MET	326	43	1.4	601	8	ABX61824	AbX61824	Novel	hum
254	44	1.4	38374	6	ABL68824	AbL68824	Kidney	ca	327	43	1.4	601	8	ABX61823	AbX61823	Novel	hum
255	44	1.4	38374	6	ABL68363	AbL68363	Kidney	ca	328	43	1.4	608	5	ABV57704	AbV57704	Human	pro
256	44	1.4	38374	6	ABL68364	AbL68364	Kidney	ca	329	43	1.4	705	4	AAH08193	AaH08193	Human	CDN
257	44	1.4	38374	6	ABN96966	Abn96966	Gene	#346	330	43	1.4	1093	11	ACN88614	Acn88614	Breast	ca
258	44	1.4	39119	8	ABZ74034	Abz74034	Secreted		331	43	1.4	1155	6	AAI39976	Aai39976	Lung	spec
259	44	1.4	39119	8	ADA98641	Ada98641	Human	sec	332	43	1.4	1275	4	AAK65471	Aak65471	Human	imm
260	44	1.4	39119	10	ADC20764	Adc20764	Human	sec	333	43	1.4	1467	4	ABA09083	AbA09083	Human	nov
261	44	1.4	39119	10	ABZ67621	Abz67621	Human	sec	334	43	1.4	1653	4	AAK83983	Aak83983	Human	imm
262	44	1.4	46404	11	ACN44270	Acn44270	Human	gen	335	43	1.4	1839	4	AAH16607	AaH16607	Human	CDN
263	44	1.4	50602	11	ACN44146	Acn44146	Human	gen	336	43	1.4	2263	13	ADV99508	Adv99508	NIH/3T3	C
264	44	1.4	58822	9	ADA02540	Ada02540	Human	TCO	337	43	1.4	2263	13	ADV99509	Adv99509	NIH/3T3	C
265	44	1.4	58822	10	ADB72278	AdB72278	Human	TCO	338	43	1.4	2273	6	ABA01629	AbA01629	Human	RNA
266	44	1.4	58822	10	ADE95788	AdE95788	Human	TCO	339	43	1.4	2506	13	ADQ39021	AdQ39021	Human	SNP
267	44	1.4	60057	11	ACN44314	Acn44314	Human	gen	340	43	1.4	2825	11	ACN92637	Acn92637	Breast	ca
268	44	1.4	72705	11	ACN45158	Acn45158	Human	gen	341	43	1.4	3465	14	ADM78757	AdM78757	Human	his
269	44	1.4	81369	3	AAA97997	Aaa97997	Human	T <sup>g</sup>	342	43	1.4	3465	14	ADM78757	AdM78757	Human	his
270	44	1.4	88208	14	ADZ13389	Adz13389	Human	can	343	43	1.4	3512	10	ADL13657	AdL13657	Osteoarth	
271	44	1.4	88445	13	ABD33536	Abd33536	Human	can	344	43	1.4	3757	13	ADQ39023	AdQ39023	Human	SNP
272	44	1.4	101270	12	ADQ17814	AdQ17814	Human	sof	345	43	1.4	3870	8	ABZ42676	AbZ42676	Human	his
273	44	1.4	103375	13	ABD32761	Abd32761	Human	can	346	43	1.4	3870	14	ADW78755	AdW78755	Human	his
274	44	1.4	110000	11	ACN44150	Acn44150	Human	can	347	43	1.4	4182	4	AAH26524	AaH26524	Human	pro
275	44	1.4	110000	13	ABD32780	Abd32780	Human	can	348	43	1.4	4289	13	ACN42409	Acn42409	Human	dia
276	44	1.4	110000	14	ADZ45062	Adz45062	Continuati	(2 of	349	43	1.4	4307	13	ACN42407	Acn42407	Human	dia
277	44	1.4	111084	12	ADQ18808	AdQ18808	Human	sof	350	43	1.4	4321	13	ACN42408	Acn42408	Human	dia
278	44	1.4	112460	6	ABR83567	AbR83567	Human	CDN	351	43	1.4	5069	4	AAK67404	Aak67404	Human	imm
279	44	1.4	113585	12	ADJ119197	AdJ119197	Human	int	352	43	1.4	5232	2	AAV55038	Aav55038	Human	XIA
280	44	1.4	117754	11	ACN43866	Acn43866	Human	gen	353	43	1.4	5856	10	ACPF3378	AcP3378	Human	his
281	44	1.4	121434	12	ADN30326	Adn30326	Human	Not	354	43	1.4	6491	5	ADM20191	AdM20191	Altermati	
282	44	1.4	121434	14	AEA08528	Aea08528	Human	Not	355	43	1.4	8763	4	AAK89468	Aak89468	Human	dig
283	44	1.4	125439	6	ABQ88177	AbQ88177	Human	ost	356	43	1.4	8948	4	AAK73054	Aak73054	Human	dig
284	44	1.4	138941	8	ACC79695	Acc79695	Human	tum	357	43	1.4	9120	12	ADN11326	AdN11326	Human	kai
285	44	1.4	139257	10	ADC89520	Adc89520	Human	COR	358	43	1.4	9120	13	ADR72634	AdR72634	Human	ren
286	44	1.4	139573	10	ADH58564	Adh58564	Human	Na+	359	43	1.4	9120	13	ADR72892	AdR72892	Human	over
287	44	1.4	149612	11	ACN45154	Acn45154	Human	gen	360	43	1.4	9120	14	ADY67601	AdY67601	Human	kal
288	44	1.4	156416	13	ABD32817	Abd32817	Human	can	361	43	1.4	9253	5	ABAI5922	AbAI5922	Human	ner
289	44	1.4	160361	12	ADL08116	AdL08116	Human	can	362	43	1.4	9253	5	ABAI5922	AbAI5922	Human	ner
290	44	1.4	161531	13	ABD33232	Abd33232	Human	can	363	43	1.4	9474	6	ABK50462	AbK50462	Human	bis
291	44	1.4	175077	11	ACN44626	Acn44626	Human	gen	364	43	1.4	10695	4	AAK65420	Aak65420	Human	imm
292	44	1.4	175077	6	ABO88146	AbO88146	Human	ost	365	43	1.4	12437	10	AAAD64398	AaA64398	Human	chr
293	44	1.4	178896	6	ABQ75562	AbQ75562	Human	rel	366	43	1.4	12889	4	ABA07412	AbA07412	Human	pan
294	44	1.4	188888	6	ABQ75562	AbQ75562	Human	rel	367	43	1.4	12889	4	ABA07412	AbA07412	Human	pan
295	44	1.4	191010	12	ADO25291	AdO25291	Human	pro	368	43	1.4	14143	4	ABA07413	AbA07413	Human	pan
296	44	1.4	220895	6	ABR84798	AbR84798	Human	CDN	369	43	1.4	14143	4	AAK91144	Aak91144	Human	pan
297	44	1.4	220895	13	ADP52737	AdP52737	Drug	ther	370	43	1.4	17431	4	AAK90339	Aak90339	Human	dig
298	44	1.4	302603	11	ADP75187	AdP75187	Human	End	371	43	1.4	17431	4	AAI57710	Aai57710	Human	col
299	43	1.4	117	3	AAK70695	Aak70695	Human	imm	372	43	1.4	17431	6	ABR59887	AbR59887	Genomic	D
300	43	1.4	120	4	AAK70692	Aak70692	Human	imm	373	43	1.4	17431	10	ADB93040	AdB93040	Human	col
301	43	1.4	149	4	AAK65042	Aak65042	Human	imm	374	43	1.4	17596	4	AAK72852	Aak72852	Human	imm
302	43	1.4	153	4	AAK66030	Aak66030	Human	imm	375	43	1.4	17804	13	ADS636476	AdS636476	Human	aut
303	43	1.4	216	4	AAK73056	Aak73056	Human	imm	376	43	1.4	17809	13	ADS636457	AdS636457	Human	aut
304	43	1.4	288	4	AAK68373	Aak68373	Human	imm	377	43	1.4	17996	4	AAI36330	Aai36330	Human	mus
305	43	1.4	288	4	AAK73436	Aak73436	Human	imm	378	43	1.4	17996	6	ABX59318	AbX59318	CDNA	enco
306	43	1.4	295	4	AAK36158	Aak36158	Human	car	379	43	1.4	17996	12	ADJ30068	AdJ30068	Human	mus
307	43	1.4	295	10	ADE46852	AdE46852	Human	car	380	43	1.4	18428	13	ADS36477	AdS36477	Human	aut
308	43	1.4	295	13	ADJ08270	AdJ08270	Human	imm	381	43	1.4	18664	4	AAK84438	Aak84438	Human	

385	43	1.4	22452	10	ADB94632	Adb94632 Novel hum
386	43	1.4	22452	10	ADB94630	Adb94630 Novel hum
C 387	43	1.4	23181	4	AAK80342	AAK80342 Human imm
C 388	43	1.4	23181	4	AAK70549	AAK70549 Human imm
C 389	43	1.4	23580	4	AAK83578	AAK83578 Human imm
C 390	43	1.4	23580	4	AAK66230	AAK66230 Human imm
C 391	43	1.4	26555	4	AAK66605	AAK66605 Human imm
C 392	43	1.4	26555	4	AAK68372	AAK68372 Human imm
C 393	43	1.4	26555	4	AAI62833	AAI62833 Human gen
C 394	43	1.4	26747	6	AAI67784	AAI67784 Nucleotid
C 395	43	1.4	31397	11	ACNA4346	ACNA4346 Human gen
C 396	43	1.4	32195	4	AAK6105	AAK6105 Human car
C 397	43	1.4	32195	4	AAK31538	AAK31538 Human DNA
C 398	43	1.4	32195	4	AAK31532	AAK31532 Human DNA
C 399	43	1.4	32195	4	ABK44045	ABK44045 Genomic D
C 400	43	1.4	32195	6	ABO66856	ABO66856 Human pol
C 401	43	1.4	32195	6	ABO66862	ABO66862 Human pol
C 402	43	1.4	32195	10	ADCI1143	ADCI1143 Human DNA
C 403	43	1.4	32195	10	ADCI1149	ADCI1149 Human DNA
C 404	43	1.4	32195	10	ADCI1149	ADCI1149 Human DNA
C 405	43	1.4	32195	12	ADCI1149	ADCI1149 Human DNA
C 406	43	1.4	32195	13	ADCI1149	ADCI1149 Human DNA
C 407	43	1.4	32196	5	ABAI8857	ABAI8857 Human ner
C 408	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 409	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 410	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 411	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 412	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 413	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 414	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 415	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 416	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 417	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 418	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 419	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 420	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 421	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 422	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 423	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 424	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 425	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 426	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 427	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 428	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 429	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 430	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 431	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 432	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 433	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 434	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 435	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 436	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 437	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 438	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 439	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 440	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 441	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 442	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 443	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 444	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 445	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 446	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 447	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 448	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 449	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 450	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 451	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 452	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 453	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 454	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 455	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 456	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA
C 457	43	1.4	32425	10	ADCI1149	ADCI1149 Human DNA

458	43	1.4	160552	4	AAD02697	Aad02697 Human gly
C 459	43	1.4	165156	13	ADK36459	ADK36459 Human aut
C 460	43	1.4	167343	6	ABL67239	ABL67239 Thyroid c
C 461	43	1.4	167343	6	ABL67239	ABL67239 Thyroid c
C 462	43	1.4	169144	8	ACA61395	ACA61395 Novel hum
C 463	43	1.4	174493	8	ACA61395	ACA61395 Novel hum
C 464	43	1.4	174493	10	ADK36459	ADK36459 Human aut
C 465	43	1.4	174493	12	ADK36459	ADK36459 Human aut
C 466	43	1.4	201143	6	ABK83568	ABK83568 Human DNA
C 467	43	1.4	215221	11	ACNA4754	ACNA4754 Human gen
C 468	43	1.4	276276	11	ACNA4350	ACNA4350 Human gen
C 469	43	1.4	310268	13	ABD32548	ABD32548 Human can
C 470	43	1.4	326002	13	ABD32548	ABD32548 Human can
C 471	43	1.4	326002	13	ABD32548	ABD32548 Human can
C 472	43	1.4	326002	13	ABD32548	ABD32548 Human can
C 473	43	1.4	326002	13	ABD32548	ABD32548 Human can
C 474	43	1.4	326002	13	ABD32548	ABD32548 Human can
C 475	43	1.4	326002	13	ABD32548	ABD32548 Human can
C 476	43	1.4	326002	13	ABD32548	ABD32548 Human can
C 477	43	1.4	326002	13	ABD32548	ABD32548 Human can
C 478	43	1.4	326002	13	ABD32548	ABD32548 Human can
C 479	43	1.4	326002	13	ABD32548	ABD32548 Human can
C 480	43	1.4	326002	13	ABD32548	ABD32548 Human can
C 481	43	1.4	326002	13	ABD32548	ABD32548 Human can
C 482	43	1.4	326002	13	ABD32548	ABD32548 Human can
C 483	43	1.4	326002	13	ABD32548	ABD32548 Human can
C 484	43	1.4	326002	13	ABD32548	ABD32548 Human can
C 485	43	1.4	326002	13	ABD32548	ABD32548 Human can
C 486	43	1.4	326002	13	ABD32548	ABD32548 Human can
C 487	43	1.4	326002	13	ABD32548	ABD32548 Human can
C 488	43	1.4	326002	13	ABD32548	ABD32548 Human can
C 489	43	1.4	326002	13	ABD32548	ABD32548 Human can
C 490	43	1.4	326002	13	ABD32548	ABD32548 Human can
C 491	43	1.4	326002	13	ABD32548	ABD32548 Human can
C 492	43	1.4	326002	13	ABD32548	ABD32548 Human can
C 493	43	1.4	326002	13	ABD32548	ABD32548 Human can
C 494	43	1.4	326002	13	ABD32548	ABD32548 Human can
C 495	43	1.4	326002	13	ABD32548	ABD32548 Human can
C 496	43	1.4	326002	13	ABD32548	ABD32548 Human can
C 497	43	1.4	326002	13	ABD32548	ABD32548 Human can
C 498	43	1.4	326002	13	ABD32548	ABD32548 Human can
C 499	43	1.4	326002	13	ABD32548	ABD32548 Human can
C 500	43	1.4	326002	13	ABD32548	ABD32548 Human can

ALIGNMENTS

RESULT 1  
ADQ62941 standard; cDNA; 3122 BP.

ADQ62941;  
07-OCT-2004 (first entry)  
Novel human cDNA sequence #102.

ss; gene; osteopathic; neuroprotective; nootropic; antiparkinsonian;  
cytostatic; gene therapy; diagnostic marker; morbid state; osteoporosis;  
neurological disease; Alzheimer's disease; Parkinson's disease; dementia;  
cancer.

Homo sapiens.  
EPI440981-A2.  
28-JUL-2004.  
21-JAN-2004; 2004EP-00001196.  
21-JAN-2003; 2003JP-00102206.  
09-MAY-2003; 2003JP-00131392.



XX (REAS-) RES ASSOC BIOTECHNOLOGY.  
PA Isogai T, Sugiyama T, Otsuki T, Wakamatsu A, Sato H, Ishii S;  
XX Yamamoto J, Isono Y, Nagai K, Irie R;  
PI WPI; 2004-535376/52.  
DR P-PSDB; A065129.  
XX  
PT Novel 2495 cDNA, useful for treating osteoporosis, neurological diseases,  
PT Alzheimer's diseases, Parkinson's diseases, dementia and various cancers,  
XX  
PS Claim 1; SEQ ID NO 102; 2449bp; English.  
XX  
CC The invention relates to 2495 novel polynucleotides (I) and their encoded  
CC polypeptides, sequences hybridizing to these nucleotides, sequences  
CC encoding partial polypeptides and sequences having 70% or 90% identity to  
CC the nucleotide and protein sequences. The nucleotides and polypeptides  
CC are useful as diagnostic markers or therapeutic target for the diseases  
CC or morbid states. They are also useful for treating osteoporosis,  
CC neurological diseases, Alzheimer's diseases, Parkinson's diseases,  
CC dementia and various cancers. This sequence corresponds to a nucleotide  
CC sequence of the invention.  
SQ Sequence 3122 BP; 601 A; 891 C; 1019 G; 611 T; 0 U; 0 Other;  
Query Match 100.0%; Score 3122; DB 12; Length 3122;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 3122; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 ACTAGAGTGGGGTTAGCGCTTGGAAGCACGACCAAGTGAAGCGCAACGGGAGGAC 60  
DB 1 ACTAGAGTGGGGTTAGCGCTTGGAAGCACGACCAAGTGAAGCGCAACGGGAGGAC 60  
QY 61 ACCTGACCCCGGCGGCGCCAGCCCTCGAGATTGCGACTGCTGCTTGGGCGACG 120  
DB 61 ACCTGACCCCGGCGGCGCCAGCCCTCGAGATTGCGACTGCTGCTTGGGCGACG 120  
QY 121 GAGGTGCCAGTCTCGCGGGGCACTCGACGTCTGTGCGCGAAGGGTCCGGAGTCACT 180  
DB 121 GAGGTGCCAGTCTCGCGGGGCACTCGACGTCTGTGCGCGAAGGGTCCGGAGTCACT 180  
QY 181 ATAGCTGGGTTCTAGTCCCATCATCAGGCAAAACTCCGCGGAGCTGCGCTTTTAA 240  
DB 181 ATAGCTGGGTTCTAGTCCCATCATCAGGCAAAACTCCGCGGAGCTGCGCTTTTAA 240  
QY 241 CCTGGGCGCTCAGATTCCCATCCGTAAATAGAACGGGTTGATCTCCGAGCGCTAAC 300  
DB 241 CCTGGGCGCTCAGATTCCCATCCGTAAATAGAACGGGTTGATCTCCGAGCGCTAAC 300  
QY 301 TTTCAGAACTCGATGAGGCGAAAGGAGGAGGATGGGCCACCAACGTGACTCTCC 360  
DB 301 TTTCAGAACTCGATGAGGCGAAAGGAGGAGGATGGGCCACCAACGTGACTCTCC 360  
QY 361 CGGAGGAGACCCCGCTACACATGATCAGGAGGAGTGGCACTCCGCGGAGAGCGGG 420  
DB 361 CGGAGGAGACCCCGCTACACATGATCAGGAGGAGTGGCACTCCGCGGAGAGCGGG 420  
QY 421 GTGGGCGGCTCTAGAAAACCTTACCGGCGCGCTTGGCAGCGCTTAAAGCGAGCGCG 480  
DB 421 GTGGGCGGCTCTAGAAAACCTTACCGGCGCGCTTGGCAGCGCTTAAAGCGAGCGCG 480  
QY 481 CGGCTCTGCAAGCTGTTGCCCGCGAGTTGGCACCAACGAGAGATGGGACCGCACCTTC 540  
DB 481 CGGCTCTGCAAGCTGTTGCCCGCGAGTTGGCACCAACGAGAGATGGGACCGCACCTTC 540  
QY 541 AGCTTCGAGGGAGCCACGTTGAGGCGAGGGCGGTGAGAGACAGAGTGTGACTCGG 600  
DB 541 AGCTTCGAGGGAGCCACGTTGAGGCGAGGGCGGTGAGAGACAGAGTGTGACTCGG 600  
QY 601 AGTGGCGCTGGGAGAGATGAGAGGAGGAGCGGAGACCGCTTAAAGGGGCTCCCTCTGGCC 660  
DB 601 AGTGGCGCTGGGAGAGATGAGAGGAGGAGCGGAGACCGCTTAAAGGGGCTCCCTCTGGCC 660

QY 661 GCCCGTCCGAGAGGCGCACGTGAGGGTCCCGGCGGAGCTCCGTGACGTTGGCGGTA 720  
DB 661 GCCCGTCCGAGAGGCGCACGTGAGGGTCCCGGCGGAGCTCCGTGACGTTGGCGGTA 720  
QY 721 GCGCCGAGCGAGTCAACGACCAATGAAAGAGCTTCTGTCGCGCGGCCCAAGGCGGGATG 780  
DB 721 GCGCCGAGCGAGTCAACGACCAATGAAAGAGCTTCTGTCGCGCGGCCCAAGGCGGGATG 780  
QY 781 GGGGTTAGCCACATCTCTGCGCGCTGAGAGGAGGCTTAAAGGCGCGGCGCGGCC 840  
DB 781 GGGGTTAGCCACATCTCTGCGCGCTGAGAGGAGGCTTAAAGGCGCGGCGCGGCC 840  
QY 841 AGCGGAGCCCAACGCGATGAGGAGGAGAGTGAAGAGCGCTGCTGACGAGGCTCAACA 900  
DB 841 AGCGGAGCCCAACGCGATGAGGAGGAGAGTGAAGAGCGCTGCTGACGAGGCTCAACA 900  
QY 901 AGACGACTGCTGTACACCACTGTGTGACCGTGTGAGCTCGGCGGACTCGCAGA 960  
DB 901 AGACGACTGCTGTACACCACTGTGTGACCGTGTGAGCTCGGCGGACTCGCAGA 960  
QY 961 ACTCGCGGAGAGCTGCAAAAGACGCGCCAGAGGCGCAGAGGCTGGCGGTCACT 1020  
DB 961 ACTCGCGGAGAGCTGCAAAAGACGCGCCAGAGGCGCAGAGGCTGGCGGTCACT 1020  
QY 1021 GCGCGCGCTGACTGTGTGCGCGGACCGGGGCTGGCGCGGACGAGCGCGAGT 1080  
DB 1021 GCGCGCGCTGACTGTGTGCGCGGACCGGGGCTGGCGCGGACGAGCGCGAGT 1080  
QY 1081 TCGAGCGGCTGTGGGTGCTTCTGCGGCTGCTGAGACTGTGAGACGACATGCGAC 1140  
DB 1081 TCGAGCGGCTGTGGGTGCTTCTGCGGCTGCTGAGACTGTGAGACGACATGCGAC 1140  
QY 1141 GCTGCTGAGCTGGGCGCGCGCTTCCGCTGACGCGCGCGGAGCTGTGCGCA 1200  
DB 1141 GCTGCTGAGCTGGGCGCGCGCTTCCGCTGACGCGCGCGGAGCTGTGCGCA 1200  
QY 1201 CAGGTGTGCTGCGCGCTTCCGCGGAGGCGCGCGCGCTGAGCAACCGGACCTGCG 1260  
DB 1201 CAGGTGTGCTGCGCGCTTCCGCGGAGGCGCGCGCGCTGAGCAACCGGACCTGCG 1260  
QY 1261 GCGCTGAGGCGGAGGCGCACTTGCAGCTGCGGAGCTGCGGAGGCTGAGCGAGGTCC 1320  
DB 1261 GCGCTGAGGCGGAGGCGCACTTGCAGCTGCGGAGCTGCGGAGGCTGAGCGAGGTCC 1320  
QY 1321 TTCAAGTGGGAGATGATTCGACCAATGAGATGAAAGTCAACGTGCGCGCTGAGACCG 1380  
DB 1321 TTCAAGTGGGAGATGATTCGACCAATGAGATGAAAGTCAACGTGCGCGCTGAGACCG 1380  
QY 1381 TGCAGGCGCGGAGGCGCGCGCGCGCGCGCTGCTGCAAGGTCAGCGCGCGCGCTCTCT 1440  
DB 1381 TGCAGGCGCGGAGGCGCGCGCGCGCGCGCTGCTGCAAGGTCAGCGCGCGCGCTCTCT 1440  
QY 1441 CGGTGTGCTCTTGGAGAGCGCGGAGGAGGTTGCAACCGAGAAAGGCGCTGCGCGCA 1500  
DB 1441 CGGTGTGCTCTTGGAGAGCGCGGAGGAGGTTGCAACCGAGAAAGGCGCTGCGCGCA 1500  
QY 1501 TCTTTTGGCGCGCTGCTGCGCGCTGCGCTGAGCCCTTACCGGTGTGCGTGAAGCTGA 1560  
DB 1501 TCTTTTGGCGCGCTGCTGCGCGCTGCGCTGAGCCCTTACCGGTGTGCGTGAAGCTGA 1560  
QY 1561 GCTGACACACCGGACCGCGCTGCTGCGCGCTGCGCTGCGTGAAGAAAGCTGG 1620  
DB 1561 GCTGACACACCGGACCGCGCTGCTGCGCGCTGCGCTGCGTGAAGAAAGCTGG 1620  
QY 1621 GATGGGTGTGGGCTGTGCTGTGCAAGGAGAGTGTCTTAAACCGGTGTGTGCAAGG 1680  
DB 1621 GATGGGTGTGGGCTGTGCTGTGCAAGGAGAGTGTCTTAAACCGGTGTGTGCAAGG 1680  
QY 1681 GTACACGCGCGTTTCAATGCAATCTGCTGCGGAGGACACGAGTTTCTCTTGTGCGC 1740  
DB 1681 GTACACGCGCGTTTCAATGCAATCTGCTGCGGAGGACACGAGTTTCTCTTGTGCGC 1740

QY 1741 CCGGAGAAATTAACTTTGCGCGCGCGCTGAGGGCAATTACCGTCTGACGAGCT 1800  
 DB 1741 CCGGAGAAATTAACTTTGCGCGCGCGCTGAGGGCAATTACCGTCTGACGAGCT 1800  
 QY 1801 TTATTCCTTATTAATAAAACCGTCAAGTACCCCTTACCTCCGAGTATGAGTT 1860  
 DB 1801 TTATTCCTTATTAATAAAACCGTCAAGTACCCCTTACCTCCGAGTATGAGTT 1860  
 QY 1861 AACACATGCTGTGTGGGCGCTCTTTTACAGGAGTCCGAGTCCGATCCCA 1920  
 DB 1861 AACACATGCTGTGTGGGCGCTCTTTTACAGGAGTCCGAGTCCGATCCCA 1920  
 QY 1921 GCGTCCGCGCTTTCTGCGTGGGACAAGTTGAAAAGGTGGGTGGGTGAGTGAAGTTTG 1980  
 DB 1921 GCGTCCGCGCTTTCTGCGTGGGACAAGTTGAAAAGGTGGGTGGGTGAGTGAAGTTTG 1980  
 QY 1981 GAGAGGACCGTGTGTTGTTCTATGTTGTTGTTGTTTCCCGGACAAAGAAAATTGCAA 2040  
 DB 1981 GAGAGGACCGTGTGTTGTTCTATGTTGTTGTTGTTTCCCGGACAAAGAAAATTGCAA 2040  
 QY 2041 TCAATGTCAAGCAGCTTTTATTAACCTTATCTTTCAAGGCTTAATTTAGAGAGTGC 2100  
 DB 2041 TCAATGTCAAGCAGCTTTTATTAACCTTATCTTTCAAGGCTTAATTTAGAGAGTGC 2100  
 QY 2101 TGAAGACAGTTCAATCAAAAGGCTTTCTTAAGACGCGCTACAGCCTTCTAGCAAGT 2160  
 DB 2101 TGAAGACAGTTCAATCAAAAGGCTTTCTTAAGACGCGCTACAGCCTTCTAGCAAGT 2160  
 QY 2161 TTATCCATTGCTCCCAAGACAGCTAGAGATTGAGGTCAATGACCTCCACCTGCG 2220  
 DB 2161 TTATCCATTGCTCCCAAGACAGCTAGAGATTGAGGTCAATGACCTCCACCTGCG 2220  
 QY 2221 CTCAGGGGCTGACCTTATTTAGAAAACCAAGAGGGTGGTGAACCTACTCTACGAGAC 2280  
 DB 2221 CTCAGGGGCTGACCTTATTTAGAAAACCAAGAGGGTGGTGAACCTACTCTACGAGAC 2280  
 QY 2281 TTGATCTCAGTGGCGACAATTGCTCGGAAAAGGCTCTCCGACGCCACCGAGATGG 2340  
 DB 2281 TTGATCTCAGTGGCGACAATTGCTCGGAAAAGGCTCTCCGACGCCACCGAGATGG 2340  
 QY 2341 GGGTAAAGAGAAAGACAGGCTTGGGGTAGGGCACCTGGTGTAAACAGGCACTTTC 2400  
 DB 2341 GGGTAAAGAGAAAGACAGGCTTGGGGTAGGGCACCTGGTGTAAACAGGCACTTTC 2400  
 QY 2401 TCCCTCTCGGGGCTTATTTTGTTCAGAACTAGACAGAGTGTGGAACCTCCTTGCA 2460  
 DB 2401 TCCCTCTCGGGGCTTATTTTGTTCAGAACTAGACAGAGTGTGGAACCTCCTTGCA 2460  
 QY 2461 GAGAGGCTGGGAATCCTTTTAGAGCACTTAATCCCTAATTATCCCTGGAATGTCGTGC 2520  
 DB 2461 GAGAGGCTGGGAATCCTTTTAGAGCACTTAATCCCTAATTATCCCTGGAATGTCGTGC 2520  
 QY 2521 TGGCAGTAGAGAGGGCTGGCTTTGGCAGCTCCGACCCCGCGCTGCGCGCCCTCCG 2580  
 DB 2521 TGGCAGTAGAGAGGGCTGGCTTTGGCAGCTCCGACCCCGCGCTGCGCGCCCTCCG 2580  
 QY 2581 GGTATGTGCAATTAAGTCCCAAGAGGTTTGAACCACTGAGACTGAGACTGGGTTA 2640  
 DB 2581 GGTATGTGCAATTAAGTCCCAAGAGGTTTGAACCACTGAGACTGAGACTGGGTTA 2640  
 QY 2641 GAATGTAAACAGCTTTAACTTGGAGTTTAAAGGCTTTTAAAGGTAAATATCTCTGAAA 2700  
 DB 2641 GAATGTAAACAGCTTTAACTTGGAGTTTAAAGGCTTTTAAAGGTAAATATCTCTGAAA 2700  
 QY 2701 GAAATATGACCTTAACCAAGGCTGTACTATGAAGCTGTATTTTAAATAAAGACGCTGG 2760  
 DB 2701 GAAATATGACCTTAACCAAGGCTGTACTATGAAGCTGTATTTTAAATAAAGACGCTGG 2760  
 QY 2761 GCCATGAATCATATCTGCAATGAGTCAAACTATGATCTTTATGATGATCTTAAGATT 2820  
 DB 2761 GCCATGAATCATATCTGCAATGAGTCAAACTATGATCTTTATGATGATCTTAAGATT 2820  
 QY 2821 ACTAATATATATTTGATCTTCTGAAAGTTGATGTTCCCGCCCGCCCACTTTT 2880

DB 2821 ACTAATATATATTTGATCTTCTGAAAGTTGATGTTCCCGCCCGCCCACTTTT 2880  
 QY 2881 TCTTTTGGAGGAGGTGATCACTGAGGCAAGAGTTGAGACAGCAGCTGGCAACAT 2940  
 DB 2881 TCTTTTGGAGGAGGTGATCACTGAGGCAAGAGTTGAGACAGCAGCTGGCAACAT 2940  
 QY 2941 AGCGAAACCGATCTCTAATAAATAAATAATTTGGCCGGCAGTGTGGCGATGCT 3000  
 DB 2941 AGCGAAACCGATCTCTAATAAATAAATAATTTGGCCGGCAGTGTGGCGATGCT 3000  
 QY 3001 GTGTCCCACTACTCGGAGGTTGAGGCAAGAGTCTGTTGAATGACAGAGTGAAG 3060  
 DB 3001 GTGTCCCACTACTCGGAGGTTGAGGCAAGAGTCTGTTGAATGACAGAGTGAAG 3060  
 QY 3061 TTGCATGACAGAGATTGTGCACTGCACTCCAGCCTGGGCAACAGAGAACTGTGC 3120  
 DB 3061 TTGCATGACAGAGATTGTGCACTGCACTCCAGCCTGGGCAACAGAGAACTGTGC 3120  
 QY 3121 TC 3122  
 DB 3121 TC 3122  
 RESULT 2  
 ADR07462  
 ID ADR07462 standard; cDNA; 2327 BP.  
 XX  
 AC ADR07462;  
 DT 04-NOV-2004 (first entry)  
 XX  
 DE Full length human cDNA useful for treating neurological disease Seq 968.  
 XX  
 KW gene, ss; human, oligo-capping method; diagnostic marker; gene therapy;  
 KW osteoporosis; neurological disease; Alzheimer's disease;  
 KW Parkinson's disease; dementia; short memory; cancer;  
 KW sense or motor function; emotional reaction; fear response; panic;  
 KW osteopathic; neuroprotective; nootropic; antiparkinsonian; cyostatic;  
 KW tranquilliser.  
 XX  
 OS Homo sapiens.  
 XX  
 PN BP147413-A2.  
 XX  
 PD 18-AUG-2004.  
 XX  
 PF 12-FEB-2004; 2004BP-00003145.  
 XX  
 PR 14-FEB-2003; 2003JP-00102207.  
 PR 09-MAY-2003; 2003JP-00131452.  
 XX  
 PA (REAS-) RES ASSOC BIOTECHNOLOGY.  
 XX  
 PI Isegai T, Yamamoto J, Nishikawa T, Isomo Y, Sugiyama T, Otsuki T,  
 PI Wakamatsu A, Ishii S, Nagai K, Irie R;  
 DR WPI: 2004-583265/57.  
 XX  
 DR P-P5DB; ADR09418.  
 PS Claim 1; SEQ ID NO 968; 2686bp; English.  
 CC This invention relates to novel, isolated full length human cDNA  
 CC molecules and the encoded proteins thereof. Specifically, it refers to  
 CC cDNA clones obtained by an oligo-capping method, where none of these  
 CC clones are identical to any known human mRNAs. The present invention  
 CC describes an immunoassay to identify agonists and antagonists, as well as  
 CC antibodies, antisense molecules and siRNAs that can all be used to bind  
 CC to and modulate expression of the cDNA molecules. As such, these  
 CC molecules are useful for diagnostic markers or therapeutic targets for

CC the various diseases or morbid states. In particular, they are useful in  
CC gene therapy for treating osteoporosis, neurological disease, Alzheimer's  
CC disease, Parkinson's disease, dementia, short memory and various cancers,  
CC as well as for maintaining equilibrium of sense or motor function, and  
CC for treating emotional reaction, fear response and panic. Accordingly,  
CC they exhibit osteoplastic, neuroprotective, neurotropic, antiparkinsonian,  
CC cytoskeletal and tranquilliser activities. This polynucleotide is a full  
CC length human cDNA sequence of the invention. NOTE: This sequence is not  
CC given in the sequence listing of the specification but can be obtained on  
CC CD-ROM from the European Patent Office, Vienna Sub-office.

XX Sequence 2327 BP; 424 A; 667 C; 788 G; 448 T; 0 U; 0 Other;

Query Match 62.5%; Score 1952; DB 13; Length 2327;

Best Local Similarity 99.7%; Pred. No. 0;

Matches 2322; Conservative 0; Mismatches 5; Indels 1; Gaps 1;

QY 444 ACCCGGCGCCCTTGGCAGCGCCTTAAGCGGAGCGCGCGCTCTGCAAGCTCTTGCC 503  
DB 1 ACCCGGCGCCCTTGGCAGCGCCTTAAGCGGAGCGCGCGCTCTGCAAGCTCTTGCC 60  
QY 504 GGAGTTGGCACCACGAGAGATGGAGCCGCAACCTTCACTTTCGACGAGCCACCGTGG 563  
DB 61 GGAAGTTGGCACCACGAGAGATGGAGCCGCAACCTTCACTTTCGACGAGGACCACTGG 120  
QY 564 AGGCGAGCGCGGTGCAAGACACAGCTGTGACTCGGAGTGGCGCTGGGAGAGATGAGACG 623  
DB 121 AGGCGAGCGCGGTGCAAGACACAGCTGTGACTCGGAGTGGCGCTGGGAGAGATGAGACG 180  
QY 624 AGGAGACGGGAGACCGCTAACGAGGCGCTCCTCTGCGCGCGCCGCTCGACAGAGCCACGT 683  
DB 181 AGGAGACGGGAGACCGCTAACGAGGCGCTCCTCTGCGCGCGCCGCTCGACAGAGCCACGT 240  
QY 684 CGAGGCTCCGCGCGCGCTCCGTGGAAGCTTGGCGGTTAGCGGAGCTCAAGACAT 743  
DB 241 CGAGGCTCCGCGCGCGCTCCGTGGAAGCTTGGCGGTTAGCGGAGCTCAAGACAT 300  
QY 744 GAAAGACCTTCTGTCGCGCGCGCCCAAGGCGCGGAGTGGGTTTACGACATCTGCGCG 803  
DB 301 GAAAGACCTTCTGTCGCGCGCGCCCAAGGCGCGGAGTGGGTTTACGACATCTGCGCG 360  
QY 804 CTGAGAGGAGGCTTAACGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 863  
DB 361 CTGAGAGGAGGCTTAACGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 420  
QY 864 AGGAGAGAGTGCAGAGCGCTGCTGGAAGCGGCTCAACAAAGACAGCTGCTTACCAAC 923  
DB 421 AGGAGAGAGTGCAGAGCGCTGCTGGAAGCGGCTCAACAAAGACAGCTGCTTACCAAC 480  
QY 924 CTGAGTGTGACCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 983  
DB 481 CTGAGTGTGACCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 540  
QY 984 AGGCGCAGAGAGCGCGAGAGCTGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1043  
DB 541 AGGCGCAGAGAGCGCGAGAGCTGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 600  
QY 1044 CGCGACCGGCGCGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCT 1103  
DB 601 CGCGACCGGCGCGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCT 660  
QY 1104 TGGGCTGTGCTGGAAGCTGCTGGAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1163  
DB 661 TGGGCTGTGCTGGAAGCTGCTGGAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 720  
QY 1164 TTCCGCTGCAAGCT 1223  
DB 721 TTCCGCTGCAAGCT 780  
QY 1224 GGCCTGTGCGCGCGCGCGCTGAGACCGCGAGCTTGGCTGAGCGGAGGAGCGACCTTC 1283  
DB 781 GGCCTGTGCGCGCGCGCGCTGAGACCGCGAGCTTGGCTGAGCGGAGGAGCGACCTTC 840

QY 1284 GACCTGCGGACCTGCGGAGCTGAGCGCGAGGTCTTCAAGTGGCGAGATGATCGAC 1343  
DB 841 GACCTGCGGACCTGCGGAGCTGAGCGCGAGGTCTTCAAGTGGCGAGATGATCGAC 900  
QY 1344 AACATGAGATGAAAGTCAACGTGCGCGCTGAGACCTGCAAGCCCGGACGCGCGGCG 1403  
DB 901 AACATGAGATGAAAGTCAACGTGCGCGCTGAGACCTGCAAGCCCGGACGCGCGGCG 960  
QY 1404 GCCAGCTCTGCTCAAGCGTCAAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCTTCA 1463  
DB 961 GCCAGCTCTGCTCAAGCGTCAAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCTTCA 1020  
QY 1464 GGGGGGGGTTGCGACCCCGAGAAAGGCTTGGCCCGCATCTTCTTGGCGCGCGTGTGCTG 1523  
DB 1021 GGGGGGGGTTGCGACCCCGAGAAAGGCTTGGCCCGCATCTTCTTGGCGCGCGTGTGCTG 1080  
QY 1524 GCGGCTGTGAGCCTTACCGTGTGCGTGAAGCTGAGCTGACAGACACCCGACGCGCGC 1583  
DB 1081 GCGGCTGTGAGCCTTACCGTGTGCGTGAAGCTGAGCTGAGCTGACAGACACCCGACGCGCGC 1140  
QY 1584 CTGCTGTGCGCGCTTCCCTCCCTGAGAAAGACCTGCGGATGGGTGTGGGCTGTGCTGT 1643  
DB 1141 CTGCTGTGCGCGCTTCCCTCCCTGAGAAAGACCTGCGGATGGGTGTGGGCTGTGCTGT 1200  
QY 1644 GCAAGGGAGTGTCTTAAACCCCGTGTGATGAGTGAACAACGCGCGCTTTCAGTGCAC 1703  
DB 1201 GCAAGGGAGTGTCTTAAACCCCGTGTGATGAGTGAACAACGCGCGCTTTCAGTGCAC 1260  
QY 1704 ATCTGCTGTGAGCAAGCAACGCTTCTCTTGTGCGCGCGCGGAGAGTTAACTTTGCGCG 1763  
DB 1261 ATCTGCTGTGAGCAAGCAACGCTTCTCTTGTGCGCGCGCGGAGAGTTAACTTTGCGCGC 1319  
QY 1764 GCGCGTCAAGGCTTAACCGCTTAACGTCTGCAAGAGCTTATTTCCCTATTAATGAAACC 1823  
DB 1320 GCGCGTCAAGGCTTAACCGCTTAACGTCTGCAAGAGCTTATTTCCCTATTAATGAAACC 1379  
QY 1824 GTCAAGTGAACCTTATGATCCCTCCGAGTTAATGATTAACAATGTGCTGTTGGGCGTCC 1883  
DB 1380 GTCAAGTGAACCTTATGATCCCTCCGAGTTAATGATTAACAATGTGCTGTTGGGCGTCC 1439  
QY 1884 TTTTACAGGAGTCCGAGTTGCGTGCACCCCTGCGACGCTGCGCCCTTCTGCGTGG 1943  
DB 1440 TTTTACAGGAGTCCGAGTTGCGTGCACCCCTGCGACGCTGCGCCCTTCTGCGTGG 1499  
QY 1944 ACAATTTGAAAAAGTGGGTGGGTGAGTGAAGTTTGAAGAGGACCGCTGTTGTTGTTCTA 2003  
DB 1500 ACAATTTGAAAAAGTGGGTGGGTGAGTGAAGTTTGAAGAGGACCGCTGTTGTTGTTCTA 1559  
QY 2004 TGTGGTGTGCTGTTCCCGGACAAAGAAAAATGCAATCAATGTCAGAGCTTTATTTA 2063  
DB 1560 TGTGGTGTGCTGTTCCCGGACAAAGAAAAATGCAATCAATGTCAGAGCTTTATTTA 1619  
QY 2064 CTTTATCTTTTCAAGGCTTAATTTAGAGAGTGTCTGAGAGCAGTTTATTAAGAGGCG 2123  
DB 1620 CTTTATCTTTTCAAGGCTTAATTTAGAGAGTGTCTGAGAGCAGTTTATTAAGAGGCG 1679  
QY 2124 TTTTCTTAAGAGCGGCTTACGCGCTTCTTACGAGATTTATTCATTTGCTCCCAAGACA 2183  
DB 1680 TTTTCTTAAGAGCGGCTTACGCGCTTCTTACGAGATTTATTCATTTGCTCCCAAGACA 1739  
QY 2184 GCTAGAGAGATTTGAGGTCAATGACCTTCCCATGCGGCTCAGGGGCTGACCTTATTTAG 2243  
DB 1740 GCTAGAGAGATTTGAGGTCAATGACCTTCCCATGCGGCTCAGGGGCTGACCTTATTTAG 1799  
QY 2244 AAACCAAGAGGTTGATTTGAACCTTACTTCAAGGACTTGTGATTCAGTGCACACTTGC 2303  
DB 1800 AAACCAAGAGGTTGATTTGAACCTTACTTCAAGGACTTGTGATTCAGTGCACACTTGC 1859  
QY 2304 CTGCGGAAAAAGGCTTCTCCCAAGCAACCGGAGATGGGGGTAAAGAAAGCAGAGGCT 2363  
DB 1860 CTGCGGAAAAAGGCTTCTCCCAAGCAACCGGAGATGGGGGTAAAGAAAGCAGAGGCT 1919  
QY 2364 TGGGGTGGGCAACTGTGTTTAAACAGGCACTTCTCTTCTGCGGCTTATTTTGG 2423

Db 1920 TGGGGTGGGGCCACCTGCTGTTTAAACAGGACCTTCTCTCTGCGGCTATTTTGG 1979  
Qy 2424 TTGAGACTAGACGAGGTGTTTGAACCTCTTGGACGAGGGCTGGGAATCCTTTAG 2483  
Db 1980 TTGGAAGCTAGACGAGGTGTTTGAACCTCTTGGACGAGGGCTGGGAATCCTTTAG 2039  
Qy 2484 AGCACTTATCTTATTTATCCCTGGAATGTCGTCGTGCGCACTAGAGGGCTGCGTTT 2543  
Db 2040 AGCACTTATCTTATTTATCCCTGGAATGTCGTCGTGCGCACTAGAGGGCTGCGTTT 2099  
Qy 2544 GGCAGCTCCCTGACCCCGCGCTGCGCCCTCCGGGTATGTGGCATTACTGGCCCA 2603  
Db 2100 GGCAGCTCCCTGACCCCGCGCTGCGCCCTCCGGGTATGTGGCATTACTGGCCCA 2159  
Qy 2604 CAGAGTTTGAAGCATCAGACTGAGACTGAGTTGGAATGTAAAGCTTAACTTGGG 2663  
Db 2160 CAGAGTTTGAAGCATCAGACTGAGACTGAGTTGGAATGTAAAGCTTAACTTGGG 2219  
Qy 2664 ATTTAAGAGCTTTTAAAGGTAATTAATCTCTGAAAAGAAAATGACGTAAACACAGCGT 2723  
Db 2220 ATTTAAGAGCTTTTAAAGGTAATTAATCTCTGAAAAGAAAATGACGTAAACACAGCGT 2279  
Qy 2724 GTACTAAGAAAGCTGTTATTTTAAAGAAAGCTGGGCGCATGAACTC 2771  
Db 2280 GTACTAAGAAAGCTGTTATTTTAAAGAAAGCTGGGCGCATGAACTC 2327

## RESULT 3

AAK83424/C

ID AAK83424 standard; DNA; 1009 BP.

XX AAK83424;

DT 07-NOV-2001 (first entry)

XX Human immune/haematopoietic antigen genomic sequence SEQ ID NO:38236.

XX Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;

KM cytosolic; gene therapy; vaccine; metastasis; ds.

XX Homo sapiens.

XX MO200157182-A2.

PD 09-AUG-2001.

XX 17-JAN-2001; 2001WO-US001354.

XX 31-JAN-2000; 2000US-0179065P.

XX 04-FEB-2000; 2000US-0180628P.

XX 24-FEB-2000; 2000US-0184664P.

XX 02-MAR-2000; 2000US-0186350P.

XX 16-MAR-2000; 2000US-0189874P.

XX 17-MAR-2000; 2000US-0190076P.

XX 18-APR-2000; 2000US-0198123P.

XX 19-MAY-2000; 2000US-0205515P.

XX 07-JUN-2000; 2000US-0209467P.

XX 28-JUN-2000; 2000US-0214866P.

XX 30-JUN-2000; 2000US-0215135P.

XX 07-JUL-2000; 2000US-0216647P.

XX 07-JUL-2000; 2000US-0217487P.

XX 11-JUL-2000; 2000US-0217496P.

XX 14-JUL-2000; 2000US-0218290P.

XX 26-JUL-2000; 2000US-0220963P.

XX 26-JUL-2000; 2000US-0220964P.

XX 14-AUG-2000; 2000US-0224519P.

XX 14-AUG-2000; 2000US-0225213P.

XX 14-AUG-2000; 2000US-0225214P.

XX 14-AUG-2000; 2000US-0225266P.

XX 14-AUG-2000; 2000US-0225267P.

PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226868P.  
PR 23-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230457P.  
PR 06-SEP-2000; 2000US-0230458P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232080P.  
PR 12-SEP-2000; 2000US-0231968P.  
PR 14-SEP-2000; 2000US-0232397P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 26-SEP-2000; 2000US-0235484P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235836P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236367P.  
PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0236802P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 02-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239935P.  
PR 13-OCT-2000; 2000US-0239937P.  
PR 20-OCT-2000; 2000US-0240960P.  
PR 20-OCT-2000; 2000US-0241221P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241826P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0246474P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.

PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249246P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249299P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0256719P.  
PR 06-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251868P.  
PR 08-DEC-2000; 2000US-0251869P.  
PR 08-DEC-2000; 2000US-0251989P.  
PR 08-DEC-2000; 2000US-0251990P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0255678P.  
PA (HUMA-) HUMAN GENOME SCI INC.  
XX  
XX  
PI Rosen CA, Barash SC, Ruben SM;  
XX  
XX WPI; 2001-483426/52.  
PT Nucleic acids encoding human immune/hematopoietic antigen polypeptides,  
PT useful for preventing, diagnosing and/or treating cancers and metastasis.  
XX  
XX Disclosure; SEQ ID NO 38236; 3071pp + Sequence Listing; English.  
PS  
XX  
XX AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)  
CC amino acid sequences given in AAM91921. (I) have cyclostatic  
CC activity, and can be used in gene therapy and vaccine production. (I)  
CC proteins and polynucleotides may be used in the prevention, diagnosis and  
CC treatment of diseases associated with inappropriate (I) expression. For  
CC example, they may be used to treat disorders associated with decreased  
CC expression by rectifying mutations or deletions in a patient's genome  
CC that affect the activity of (I) by expressing inactive proteins or to  
CC supplement the patient's own production of (I). Additionally, (I)  
CC polynucleotides may be used to produce the secreted (I), by inserting the  
CC nucleic acids into a host cell and culturing the cell to express the  
CC protein. (I) proteins and polynucleotides may be used to prevent,  
CC diagnose and treat immune/haematopoietic-related diseases, especially  
CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703  
CC to AAK81694 represent human immune/haematopoietic antigen genomic  
CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169  
CC represent sequences used in the exemplification of the present invention  
XX  
XX  
XX Sequence 1009 BP; 260 A; 269 C; 239 G; 241 T; 0 U; 0 Other;

Query Match 32.3%; Score 1009; DB 4; Length 1009;  
Best Local Similarity 100.0%; Pred. No. 0;

Matches 1009; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1766 CCGTACGGGCAATTACCGCTTAACGTCTGAGAGAGCTTTATCCCTATTATAGAAACCGT 1825  
DB 1009 CCGTACGGGCAATTACCGCTTAACGTCTGAGAGAGCTTTATCCCTATTATAGAAACCGT 950  
QY 1826 CACAGTGAACCTAGATCCCTCCGAGTTAATAGTTAACACATGCTGTGGGGCGTCTT 1885  
DB 949 CACAGTGAACCTAGATCCCTCCGAGTTAATAGTTAACACATGCTGTGGGGCGTCTT 890  
QY 1886 TACAGGAGTCCGAGTTGGTGGCCCAACCTGCGCAGCTGGCCCCCTTTGTGGAGAC 1945  
DB 889 TACAGGAGTCCGAGTTGGTGGCCCAACCTGCGCAGCTGGCCCCCTTTGTGGAGAC 830  
QY 1946 AGTTTGAAGAGTGGTGGGTGGGTGAGTGAAGTTTGGAGAGAGAGCGCTTTGGTTCTATG 2005  
DB 829 AGTTTGAAGAGTGGTGGGTGGGTGAGTGAAGTTTGGAGAGAGAGCGCTTTGGTTCTATG 770  
QY 2006 TGGTTGGTCTGTTTCCCGGACAAAGAAAATTGCAATCAATGTGACAGCTTTTATTACC 2065  
DB 769 TGGTTGGTCTGTTTCCCGGACAAAGAAAATTGCAATCAATGTGACAGCTTTTATTACC 710  
QY 2066 TTAATCTTTCAGGGCTTAATTTAGAGAGTGTCTGAGAGAGCTTCAATACAAAGGCTT 2125  
DB 709 TTAATCTTTCAGGGCTTAATTTAGAGAGTGTCTGAGAGAGCTTCAATACAAAGGCTT 650  
QY 2126 TCTCTAAGACGGCTTACAGCCCTTCTGACAGAGTTTATCATTTGTTCCCAAGAGCAGC 2185  
DB 649 TCTCTAAGACGGCTTACAGCCCTTCTGACAGAGTTTATCATTTGTTCCCAAGAGCAGC 590  
QY 2186 TAGAAGAGATTGAGGTGATGACCGCCCACTGCGGCTCAGGGGGCTGACCTATTAGGAA 2245  
DB 589 TAGAAGAGATTGAGGTGATGACCGCCCACTGCGGCTCAGGGGGCTGACCTATTAGGAA 530  
QY 2246 ACCAAAGAGGGTGGTGAACCTACTCTACAGAGCTTGATTCAGTGGCACTATGCTCT 2305  
DB 529 ACCAAAGAGGGTGGTGAACCTACTCTACAGAGCTTGATTCAGTGGCACTATGCTCT 470  
QY 2306 GCGGAAAAGGGCTCTCCCGACGACCGGAGATGGGGGTAAAGAGAAAGAGAGGCTTG 2365  
DB 469 GCGGAAAAGGGCTCTCCCGACGACCGGAGATGGGGGTAAAGAGAAAGAGAGGCTTG 410  
QY 2366 GGGTAGGGGCACTGGTGTAAACAGGCACTTCTCTCTGCGGGCTTATTTTGT 2425  
DB 409 GGGTAGGGGCACTGGTGTAAACAGGCACTTCTCTCTGCGGGCTTATTTTGT 350  
QY 2426 CAGAACTAGACCAAGTGTGAACCTCTTGTGACAGAGGGCTGGGAATCTCTTTAGAG 2485  
DB 349 CAGAACTAGACCAAGTGTGAACCTCTTGTGACAGAGGGCTGGGAATCTCTTTAGAG 290  
QY 2486 CACTTAATCTTAATTTATCCCTGGAATGTGCTGTGGCCAGTAGAGGGCTGGCTTTGG 2545  
DB 289 CACTTAATCTTAATTTATCCCTGGAATGTGCTGTGGCCAGTAGAGGGCTGGCTTTGG 230  
QY 2546 CAGCTCCCTGACCCCGGGCTGCGCGCCCTCCGAGGATAGTGGCACTTACCTGCGGCA 2605  
DB 229 CAGCTCCCTGACCCCGGGCTGCGCGCCCTCCGAGGATAGTGGCACTTACCTGCGGCA 170  
QY 2606 GAGGTTTGAACCAATCACTGTGAGACTGGGTTAGATGTAAACGCTTTAATCTGGAGT 2665  
DB 169 GAGGTTTGAACCAATCACTGTGAGACTGGGTTAGATGTAAACGCTTTAATCTGGAGT 110  
QY 2666 TTAAGAGCTTTTAAAGGTATATATCTCTGAAAGAAAATGACGTAAACACAGCGGT 2725  
DB 109 TTAAGAGCTTTTAAAGGTATATATCTCTGAAAGAAAATGACGTAAACACAGCGGT 50  
QY 2726 ACTATGAAGGCTTATTTTATTAAGAGAGCTGGGCGATGAATCTATTA 2774  
DB 49 ACTATGAAGGCTTATTTTATTAAGAGAGCTGGGCGATGAATCTATTA 1

RESULT 4  
AAK83423/c

ID AAK83423 standard; DNA; 1009 BP.  
XX AAK83423;  
XX  
DT 07-NOV-2001 (first entry)  
DE Human immune/haematopoietic antigen sequence SEQ ID NO:38235.  
XX  
KW Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;  
KW cytostatic; gene therapy; vaccine; metastasis; ds.  
XX  
OS Homo sapiens.  
PN W0200157182-A2.  
XX  
PD 09-AUG-2001.  
XX  
XX 17-JAN-2001; 2001WO-US001354.  
XX  
XX 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184668P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 11-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225266P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226868P.  
PR 22-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230437P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232080P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 12-SEP-2000; 2000US-0231968P.  
PR 14-SEP-2000; 2000US-0232397P.  
PR 14-SEP-2000; 2000US-0232398P.

PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234224P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 26-SEP-2000; 2000US-0235484P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235836P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236367P.  
PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0236802P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 02-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239935P.  
PR 13-OCT-2000; 2000US-0239937P.  
PR 20-OCT-2000; 2000US-0240960P.  
PR 20-OCT-2000; 2000US-0241221P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241826P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0246474P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249246P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 17-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.

PR 05-DEC-2000; 2000US-0256719P.  
PR 06-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251868P.  
PR 08-DEC-2000; 2000US-0251869P.  
PR 08-DEC-2000; 2000US-0251989P.  
PR 08-DEC-2000; 2000US-0251990P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0259678P.  
XX  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX  
XX Rosen CA, Barash SC, Ruben SM;  
XX  
XX MPI; 2001-483426/52.  
XX  
XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,  
PT useful for preventing, diagnosing and/or treating cancers and metastasis.  
XX  
XX Disclosure: SEQ ID NO 38235; 3071pp + Sequence Listing; English.  
XX  
XX AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)  
CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic  
CC activity, and can be used in gene therapy and vaccine production. (I)  
CC proteins and polynucleotides may be used in the prevention, diagnosis and  
CC treatment of diseases associated with inappropriate (I) expression. For  
CC example, they may be used to treat disorders associated with decreased  
CC expression by rectifying mutations or deletions in a patient's genome  
CC that affect the activity of (I) by expressing inactive proteins or to  
CC supplement the patient's own production of (I). Additionally, (I)  
CC polynucleotides may be used to produce the secreted (I), by inserting the  
CC nucleic acids into a host cell and culturing the cell to express the  
CC protein. (I) proteins and polynucleotides may be used to prevent,  
CC diagnose and treat immune/haematopoietic-related diseases, especially  
CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703  
CC to AAK81694 represent human immune/haematopoietic antigen genomic  
CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169  
CC represent sequences used in the exemplification of the present invention  
XX  
XX Sequence 1009 BP; 260 A; 269 C; 239 G; 241 T; 0 U; 0 Other;  
SQ

Query Match 32.3%; Score 1009; DB 4; Length 1009;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1009; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1766 CCGTCAAGGCGATTACCGCTTACGCTGCGAGAGCTTATTCCTATTAAGAAACCGT 1825  
DB 1009 CCGTCAAGGCGATTACCGCTTACGCTGCGAGAGCTTATTCCTATTAAGAAACCGT 950

QY 1826 CACAGTGACCTTGAATCCCTCCGAGTTATGAGTTAAACAATGCTGTGGGGGCTTT 1885  
DB 949 CACAGTGACCTTGAATCCCTCCGAGTTATGAGTTAAACAATGCTGTGGGGGCTTT 890

QY 1886 TACAGGAGATCCGAGTTGCGTCCCAACCCCTGCGAGCGTCCGCCCTTCTGCGTGGAC 1945  
DB 889 TACAGGAGATCCGAGTTGCGTCCCAACCCCTGCGAGCGTCCGCCCTTCTGCGTGGAC 830

QY 1946 AGTTGAAAAGGTGGGTGGGTGAGTGAAGTTTGGAGAGGAGCGCTGTTGGTCTATG 2005  
DB 829 AGTTGAAAAGGTGGGTGGGTGAGTGAAGTTTGGAGAGGAGCGCTGTTGGTCTATG 770

QY 2006 TGGTGTGCTGTTTCCCGGAGCAAAATTTGCATCAATGATCGAGAGCTTTATTAAC 2065  
DB 769 TGGTGTGCTGTTTCCCGGAGCAAAATTTGCATCAATGATCGAGAGCTTTATTAAC 710

QY 2066 TTAATCTTTCAGGCGCTTAATTTAGAGAGTGTCTGAGAGAGTTCATACAAAGGCTT 2125  
DB 709 TTAATCTTTCAGGCGCTTAATTTAGAGAGTGTCTGAGAGAGTTCATACAAAGGCTT 650

QY 2126 TCTTGAAGCGGCTTACAGCCCTTCTAGAGAGTTTATCAATGCTCCCAAGAGAC 2185  
DB 649 TCTTGAAGCGGCTTACAGCCCTTCTAGAGAGTTTATCAATGCTCCCAAGAGAC 590

QY 2186 TAGAAGATTTGAGGTATGATCACTCCCACTGCGGCTGAGGGGCTGACCTTATTAAGAA 2245  
DB 589 TAGAAGATTTGAGGTATGATCACTCCCACTGCGGCTGAGGGGCTGACCTTATTAAGAA 530

QY 2246 ACCAAAGAGGGTGGTGAACCTACTCTGACGGAATTGAGATTCAGTGGCACACTTGGCT 2305  
DB 529 ACCAAAGAGGGTGGTGAACCTACTCTGACGGAATTGAGATTCAGTGGCACACTTGGCT 470

QY 2306 GCGGAAAAGGGCTCCCGACGCAACCGGAGATGGGGGTTAAGAGAAAGAGAGAGGCTTG 2365  
DB 469 GCGGAAAAGGGCTCCCGACGCAACCGGAGATGGGGGTTAAGAGAAAGAGAGAGGCTTG 410

QY 2366 GGGTAGGCGCACTGGTGTATTAACAGGACACTTCTCTCTGCGGCTTATTTTGT 2425  
DB 409 GGGTAGGCGCACTGGTGTATTAACAGGACACTTCTCTCTCTGCGGCTTATTTTGT 350

QY 2426 CAGAACTAGACCAAGTGTGAACTCTCTTGGCAGAGAGGCTGGAATCTCTTAAAG 2485  
DB 349 CAGAACTAGACCAAGTGTGAACTCTCTTGGCAGAGAGGCTGGAATCTCTTAAAG 290

QY 2486 CACTTAATCTTATTTATCCCTCGGAATGTGGGTGTGGCCAGTAGAGGGCTGGCTTGG 2545  
DB 289 CACTTAATCTTATTTATCCCTCGGAATGTGGGTGTGGCCAGTAGAGGGCTGGCTTGG 230

QY 2546 CAGCTCCCTGACCCCGGCGTGGCCGCCCTCCGGGGTAAATGTGGCACTTACTGGCCACA 2605  
DB 229 CAGCTCCCTGACCCCGGCGTGGCCGCCCTCCGGGGTAAATGTGGCACTTACTGGCCACA 170

QY 2606 GAGGTTTTGAGCCATCAGCTCTGAGACTGGGTTAAGATGTAAACAGCTTTAACTTGGAT 2665  
DB 169 GAGGTTTTGAGCCATCAGCTCTGAGACTGGGTTAAGATGTAAACAGCTTTAACTTGGAT 110

QY 2666 TTAAGAACCTTTTAAAGATTAATCTCTGAAAGAAATAGTAAACCAACAGCGTGT 2725  
DB 109 TTAAGAACCTTTTAAAGATTAATCTCTGAAAGAAATAGTAAACCAACAGCGTGT 50

QY 2726 ACTATGAAGCTGTATTTTATTAAGAAAGCTGGGCGATGAATCATTA 2774  
DB 49 ACTATGAAGCTGTATTTTATTAAGAAAGCTGGGCGATGAATCATTA 1

RESULT 5  
AAK83422/C  
ID AAK83422 standard; DNA; 1009 BP.  
XX  
XX AAK83422;  
XX  
XX DT 07-NOV-2001 (first entry)  
XX  
XX DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:38234.  
XX  
XX KW Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;  
XX cytostatic; gene therapy; vaccine; metastasis; ds.  
XX  
XX OS Homo sapiens.  
XX  
XX PN WO200157182-A2.  
XX  
XX PD 09-AUG-2001.  
XX  
XX PF 17-JAN-2001; 2001WO-US001354.  
XX  
XX PR 31-JAN-2000; 2000US-0179065P.  
XX PR 04-FEB-2000; 2000US-0180628P.  
XX PR 24-FEB-2000; 2000US-018464P.  
XX PR 02-MAR-2000; 2000US-0186350P.  
XX PR 16-MAR-2000; 2000US-0189874P.  
XX PR 17-MAR-2000; 2000US-0190076P.  
XX PR 18-APR-2000; 2000US-0198123P.  
XX PR 19-MAY-2000; 2000US-0205515P.  
XX PR 07-JUN-2000; 2000US-0209467P.  
XX PR 28-JUN-2000; 2000US-0214886P.  
XX PR 30-JUN-2000; 2000US-0215135P.







Query Match 24.0%; Score 748; DB 5; Length 850;  
 Best Local Similarity 99.8%; Pred. No. 0;  
 Matches 848; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 716 CGGTAGGCGCCGAGGAGTCAACGACCATGAAAGAGCTTCTGTCGCGCGCCCAAGCCG 775  
 DB 1 CGGTAGGCGCCGAGGAGTCAACGACCATGAAAGAGCTTCTGTCGCGCGCCCAAGCCG 60

QY 776 GGATGGGGGTAAAGCACAATCTGCGCGCTGAGGGGGAGGTAAAGGGCGCGGGCCG 835  
 DB 61 GGATGGGGGTAAAGCACAATCTGCGCGCTGAGGGGGAGGTAAAGGGCGCGGGCCG 120

QY 836 GGCCAGCCGAGGCCCAACCGGATGCGAGGAGAGAGTGCAGAGCGCTGTGAACGAGCT 895  
 DB 121 GGCCAGCCGAGGCCCAACCGGATGCGAGGAGAGAGTGCAGAGCGCTGTGAACGAGCT 180

QY 896 CAACAAGACGATGCGGTGCTACACACCTGTGTGTGACCGTGGTGGCTTGGCGGACTC 955  
 DB 181 CAACAAGACGATGCGGTGCTACACACCTGTGTGTGACCGTGGTGGCTTGGCGGACTC 240

QY 956 GCAGAACCTGCGGAGGAGCTGCAAAAGACGCGCAGAGAGGCGAGAGCTGCGGTGTC 1015  
 DB 241 GCAGAACCTGCGGAGGAGCTGCAAAAGACGCGCAGAGAGGCGAGAGCTGCGGTGTC 300

QY 1016 CACCTGCGCCCGGCTGACTGTGTGTGCGGACCGGGGCTGCGCGCGCAAGCGCGC 1075  
 DB 301 CACCTGCGCCCGGCTGACTGTGTGTGCGGACCGGGGCTGCGCGCGCAAGCGCGC 360

QY 1076 CGAGTTGAGAGGGCTCTGGGGTGGCTTCTCGGGCTGTCTGAACTGTCTGAAAGGGACAT 1135  
 DB 361 CGAGTTGAGAGGGCTCTGGGGTGGCTTCTCGGGCTGTCTGAACTGTCTGAAAGGGACAT 420

QY 1136 GCGACGCTGCTGAGAGTGGGCGCGCGGTTCCGCTGCAACGCGCGCGACGCTGAGT 1195  
 DB 421 GCGACGCGCTGAGAGTGGGCGCGCGGTTCCGCTGCAACGCGCGCGACGCTGAGT 480

QY 1196 GCGCAGAGTGTGCTGCGCGCTCTCTCCGCGGTGCGCGCGCGCGCTGAGCACCCGAG 1255  
 DB 481 GCGCAGAGTGTGCTGCGCGCTCTCTCCGCGGTGCGCGCGCGCGCTGAGCACCCGAG 540

QY 1256 CTTGCGGCTCGAGGCGGAGGGCGACTTGAAGTGGCGGACCTGGGGAGCTGGAGCGGA 1315  
 DB 541 CTTGCGGCTCGAGGCGGAGGGCGACTTGAAGTGGCGGACCTGGGGAGCTGGAGCGGA 600

QY 1316 GGTCTTCAAGTGGGGCGAGATGATGACAAATGAGATGAAAGTCAAGTGGCCCGCTG 1375  
 DB 601 GGTCTTCAAGTGGGGCGAGATGATGACAAATGAGATGAAAGTCAAGTGGCCCGCTG 660

QY 1376 GACCGTGCAGCCCGCGGAGGCGCGGGCGCGAGCTCTGTCCACGGTCAAGCGCGCGCC 1435  
 DB 661 GACCGTGCAGCCCGCGGAGGCGCGGGCGCGAGCTCTGTCCACGGTCAAGCGCGCGCC 720

QY 1436 CTCTCGGTGCTGTCTTCTTGCAGAGAGCGGGGGGGTGGCAACCCAGAGAAAGCCCTGGC 1495  
 DB 721 CTCTCGGTGCTGTCTTCTTGCAGAGAGCGGGGGGGTGGCAACCCAGAGAAAGCCCTGGC 780

QY 1496 GCGCATCTTTTTCGCGCGCGTGTGCTGCGCGGCTGTGAGCCCTTACCGTGTGCGGAA 1555  
 DB 781 GCGCATCTTTTTCGCGCGCGTGTGCTGCGCGGCTGTGAGCCCTTACCGTGTGCGGAA 840

QY 1556 GCTGAGCTGA 1565  
 DB 841 GCTGAGCTGA 850

DE Human genome derived single exon probe #20699.  
 XX Human; probe; ss; gene expression; single exon probe; microarray;  
 KW alternative splicing event; genomic alteration.  
 XX Homo sapiens.  
 XX US2003194704-A1.  
 XX 16-Oct-2003.  
 XX 03-Apr-2002; 2002US-00029386.  
 XX 03-Apr-2002; 2002US-00029386.  
 XX 03-Apr-2002; 2002US-00029386.  
 XX (PENN/) PENN S G.  
 XX (RANK/) RANK D R.  
 XX (HANZ/) HANZEL D K.  
 XX Penn SG, Rank DR, Hanzel DK;  
 XX WPI; 2004-119264/12.  
 XX  
 PS Claim 1; SEQ ID NO 20699; 80pp; English.  
 XX  
 CC The invention relates to a nucleic acid probe for measuring human gene  
 CC expression, comprising any of the 27,400 fully defined nucleotide  
 CC sequences in the specification, or their complements or fragments, and  
 CC encoding at least 8 amino acids of any of the 6888 amino acid sequences  
 CC fully defined in the specification. The probe is a single exon probe that  
 CC hybridizes under high stringency conditions to a nucleic acid molecule  
 CC expressed in human cells or tissues. Also included are a spatially-  
 CC addressable set of single exon nucleic acid probes for measuring human  
 CC gene expression (comprising a plurality of single exon nucleic acid  
 CC probes cited above, where each of the plurality of probes is separately  
 CC and addressably isolatable or amplifiable from the plurality), a single  
 CC exon microarray for measuring human gene expression, a method of  
 CC measuring human gene expression, a vector comprising the single exon  
 CC probe cited above, an ORF-encoded peptide comprising at least 8  
 CC contiguous amino acids of any of the above-mentioned amino acid  
 CC sequences (optionally with conservative amino acid substitutions), an  
 CC isolated antibody that binds specifically to a peptide cited above,  
 CC methods of selling and/or licensing single exon probes or microarrays to  
 CC a customer desiring to measure gene expression, a method of providing  
 CC human gene expression data by subsequence, and a computer-readable  
 CC storage medium which contains a database having a plurality of records  
 CC (each record including data on the expression of a single exon probe  
 CC cited above. The probe, methods and apparatus are useful in gene  
 CC expression analysis. The probes may be used as tools for surveying  
 CC tissues to detect the presence of expressed messages that contain their  
 CC specific exon, or in constructing genome-derived single exon microarrays.  
 CC In addition, the probes are used in identifying and characterizing  
 CC alternative splicing events, in detecting and characterizing gross  
 CC alterations in the genomic locus that includes their exon, in assessing  
 CC smaller genomic alterations, in printing the synthesis of nucleic acids,  
 CC or in expressing the ORF-encoded peptide. The present sequence is a human  
 CC single exon probe of the invention. Note: The sequence data for this  
 CC patent did not form part of the printed specification, but was obtained  
 CC in electronic format directly from USPTO at  
 CC seqdata.uspto.gov/sequence.html?docID=20030194704  
 XX  
 SQ Sequence 708 BP; 104 A; 279 C; 231 G; 94 T; 0 U; 0 Other;

Query Match 21.0%; Score 657; DB 12; Length 708;  
 Best Local Similarity 99.9%; Pred. No. 2,9e-296;  
 Matches 707; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 858 ATGGCAGGAGGAGTCAAGAGCGCTGCTGAGCGGGCTCAACAGACGACTGCTGTCTAC 917

Db	708	ATGCGAGAGAGAGATGCAAGGCGCTGCTGGAACGGAGCTTCAACAGACGACTGCGTGTAC	649
Qy	918	CACCACTGTGTCTACACGTCGATGCTCGGCGGACTCGCAGAACCTGCGAGAGAGCTG	977
Db	648	CACCACTGTGTCTACACGTCGATGCTCGGCGGACTCGCAGAACCTGCGAGAGAGCTG	589
Qy	978	CAAAAGACGCGCAGAGAGCGCAGAGAGCTGGCGGTGTCACTGTGCGCCCGCTGACTGCT	1037
Db	588	CAAAAGACGCGCAGAGAGCGCAGAGAGCTGGCGGTGTCACTGTGCGCCCGCTGACTGCT	529
Qy	1038	GTGCTGCGCGACCGGGGCGCTGGCGCGCGACAGAGCGCGCGAGTTGAGACGGCTCGGGTG	1097
Db	528	GTGCTGCGCGACCGGGGCGCTGGCGCGCGACAGAGCGCGCGAGTTGAGACGGCTCGGGTG	469
Qy	1098	GCTTCTGAGGCTGTGCTGGAACCTGTGTCGAAAGCGACATGCGACGCTCGCTGGAAGCTGGAC	1157
Db	468	GCTTCTGAGGCTGTGCTGGAACCTGTGTCGAAAGCGACATGCGACGCTCGCTGGAAGCTGGAC	409
Qy	1158	GCCGCGTTCCCGCTGACACGCGCGCGCGCGACCCGCTGTGTGCGCACAGGTGTGGCTGGCGCC	1217
Db	408	GCCGCGTTCCCGCTGACACGCGCGCGCGCGACCCGCTGTGTGCGCACAGGTGTGGCTGGCGCC	349
Qy	1218	TCTTTCGCGCGTGTGCGCGCGCGCGCGCTGAGCACCAGCTGTGCGCTGAGCGGAGGGC	1277
Db	348	TCTTTCGCGCGTGTGCGCGCGCGCGCGCTGAGCACCAGCTGTGCGCTGAGCGGAGGGC	289
Qy	1278	GACCTTCGACGTCGCGGACCTTGCGGGAGCTGGAGCGCGGAGGTCCTTCAGGTGGCGGAGTG	1337
Db	288	GACCTTCGACGTCGCGGACCTTGCGGGAGCTGGAGCGCGGAGGTCCTTCAGGTGGCGGAGTG	229
Qy	1338	ATCGACAACATGAGAGATGAAAGTCAACGTGCCCGCTGAGACCGTGTCAAGCCCGGACGCG	1397
Db	228	ATCGACAACATGAGAGATGAAAGTCAACGTGCCCGCTGAGACCGTGTCAAGCCCGGACGCG	169
Qy	1398	GCGGCGCGCCGAGCTCTGTCCACGCTCAGCGCGCGCGCCCTCTCGGTGTGTCTTTCGAG	1457
Db	168	GCGGCGCGCCGAGCTCTGTCCACGCTCAGCGCGCGCGCCCTCTCGGTGTGTCTTTCGAG	109
Qy	1458	GAGCGCGGGGGGGGTGTGACCCCGAGGAAGGCGCTGGCGCGCGCATCTTTTGGGGCGCGTG	1517
Db	108	GAGCGCGGGGGGGGTGTGACCCCGAGGAAGGCGCTGGCGCGCGCATCTTTTGGGGCGCGTG	49
Qy	1518	CTGCTGTGCGGCTGTGCGCCCTGTAGCGCTGTGCGTGTGCGGAAGCTGAGCTGA	1565
Db	48	CTGCTGTGCGGCTGTGCGCCCTGTAGCGCTGTGCGTGTGCGGAAGCTGAGCTGA	1
RESULT 8			
ACH73793/c			
ID	ACH73793	standard; DNA; 524 BP.	
XX	ACH73793;		
AC			
DT	29-JUL-2004	(first entry)	
XX			
DE	Human genome derived single exon probe #6988.		
XX			
KW	Human; probe; 8s; gene expression; single exon probe; microarray;		
XX	alternative splicing event; genomic alteration.		
OS	Homo sapiens.		
XX			
PN	US2003194704-A1.		
PD	16-OCT-2003.		
PF	03-APR-2002; 2002US-00029386.		
XX			
PR	03-APR-2002; 2002US-00029386.		
XX			
PA	(PENN/) PENN S G.		
PA	(RANK/) RANK D R.		

Query Match	16.8%	Score 524	DB 12	Length 524
Basic Local Similarity	100.0%	Pred. No.	4.3e-224	Indels 0
Matches	524	Conservative	0	Mismatches 0
484	CTCTGCACTCTGCTTCCCGGAGTTGGCACTCCACGAGAGATGGGAGCCGCACTCTGACG	543		
524	CTCTGCACTCTGCTTCCCGGAGTTGGCACTCCACGAGAGATGGGAGCCGCACTCTGACG	465		
544	TTTCGAGGAGCCACCGTGTGAGGCCAGGCGGTGTGAGAGACACGAGCTGTGACTTGAGT	603		
464	TTTCGAGGAGCCACCGTGTGAGGCCAGGCGGTGTGAGAGACACGAGCTGTGACTTGAGT	405		
604	GCGCTTGGGAGAGATGACACGAGGAGCGGGGACCGCTTAAAGGGGCTCCCTTGTGGCGCC	663		
404	GCGCTTGGGAGAGATGACACGAGGAGCGGGGACCGCTTAAAGGGGCTCCCTTGTGGCGCC	345		
664	CGGTTCGAGAGCGCAGTGTGAGGAGTCCCGGAGCGGCTCGTGTGACGTTTGGCGGTAGCG	723		
344	CGGTTCGAGAGCGCAGTGTGAGGAGTCCCGGAGCGGCTCGTGTGACGTTTGGCGGTAGCG	285		
724	CGAGAGAGTCAACGAGCATTGAAGAGCTTGTGTGCGCGGAGCCCAAGGCGGAGTGTGAGG	783		

Db 284 CCGAGCAGTACCGAGCAGTATAGAGCGTTGTCGCCGCCGCCAAGCCGGGATGAGG 225  
Qy 784 GTTAGCCACATCTCGCCGCTGAGGGGAGGCTTACCGGGGCGGGGCGGGCCGAGC 843  
Db 224 GTTAGCCACATCTCGCCGCTGAGGGGAGGCTTACCGGGGCGGGGCGGGCCGAGC 165  
Qy 844 CGAGGCCACCGCGATGCGAGGAGGAGAGTGCAGAGGCGCTTCTGACCGGCTCAACAGA 903  
Db 164 CGAGGCCACCGCGATGCGAGGAGGAGAGTGCAGAGGCGCTTCTGACCGGCTCAACAGA 105  
Qy 904 CGATGCGTGTCTTACCACTGCTGTGACCTGCTGTGCTCGGCGGACTCGCAAGACC 963  
Db 104 CGATGCGTGTCTTACCACTGCTGTGACCTGCTGTGCTCGGCGGACTCGCAAGACC 45  
Qy 964 TGGCGCAGAGCTGCAAGAGCGCGCCGAGAGCGCGCAGAGCTG 1007  
Db 44 TGGCGCAGAGCTGCAAGAGCGCGCCGAGAGCGCGCAGAGCTG 1

RESULT 9  
AAK62785/c  
ID AAK62785 standard; cDNA: 973 BP.  
XX AAK62785;  
AC  
XX  
DT 06-NOV-2001 (first entry)  
XX  
DR Human immune/haematopoietic antigen encoding cDNA SEQ ID NO:7845.  
XX  
KW Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;  
KW cytosolic; gene therapy; vaccine; metastasis; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO200157182-A2.  
XX  
PD 09-AUG-2001.  
XX  
PF 17-JAN-2001; 2001WO-US001354.  
XX  
PR 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 11-JUL-2000; 2000US-0218290P.  
PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225266P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225477P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226868P.

PR 22-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230437P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232080P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 12-SEP-2000; 2000US-0231968P.  
PR 14-SEP-2000; 2000US-0232397P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 26-SEP-2000; 2000US-0235484P.  
PR 27-SEP-2000; 2000US-0235836P.  
PR 27-SEP-2000; 2000US-0235836P.  
PR 29-SEP-2000; 2000US-0236337P.  
PR 29-SEP-2000; 2000US-0236337P.  
PR 29-SEP-2000; 2000US-0236367P.  
PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0236802P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 02-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239935P.  
PR 13-OCT-2000; 2000US-0239937P.  
PR 20-OCT-2000; 2000US-0240560P.  
PR 20-OCT-2000; 2000US-0241221P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241826P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0246474P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246533P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.

```
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249244P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249264P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249299P.
PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251888P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259678P.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX PI Rosen CA, Barash SC, Ruben SM;
XX
XX WPI: 2001-483426/52.
XX DR P-PSDB; AAM90004.
XX
XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
XX PT useful for preventing, diagnosing and/or treating cancers and metastasis.
XX
XX PS Claim 1; SEQ ID NO 7845; 3071bp + Sequence listing; English.
XX
CC AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (1)
CC amino acid sequences given in AAM82170 to AAM91921. (1) have cytostatic
CC activity, and can be used in gene therapy and vaccine production. (1)
CC protein, and polynucleotides may be used in the prevention, diagnosis and
CC treatment of diseases associated with inappropriate (1) expression. For
CC example, they may be used to treat disorders associated with decreased
CC expression by rectifying mutations or deletions in a patient's genome
CC that affect the activity of (1) by expressing inactive proteins or to
CC supplement the patient's own production of (1). Additionally, (1)
CC polynucleotides may be used to produce the secreted (1), by inserting the
CC nucleic acids into a host cell and culturing the cell to express the
CC protein. (1) proteins and polynucleotides may be used to prevent,
CC diagnose and treat immune/haematopoietic-related diseases, especially
CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703
CC to AAK67694 represent human immune/haematopoietic antigen genomic
CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169
CC represent sequences used in the exemplification of the present invention
XX
SQ Sequence 973 BP; 255 A; 253 C; 226 G; 234 T; 0 U; 5 Other;
XX
Query Match 16.1%; Score 504; DB 4; Length 973;
Best Local Similarity 99.8%; Pred. No. 9.3e-225;
Matches 624; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
XX
QY 1958 TGGGTGGGTGGAGTAAAGTTTGAGAGGAGCGCTTTGTTCTATGTTGGTTCCTT 2017
DB 817 TGGGTGGGTGGAGTAAAGTTTGAGAGGAGCGCTTTGTTCTATGTTGGTTCCTT 758
QY 2018 TTCGCGACAAGAAAAATGGCAATCAATGTCAGAGCTTTTATTAACCTTAATCTTTGAG 2077
```

```
DB 757 TTCGCGACAAGAAAAATGGCAATCAATGTCAGAGCTTTTATTAACCTTAATCTTTGAG 698
QY 2078 GGCCTTAATTTTAGAGAGATGTCCTGAGAGCACTTATCAAAAGGCTTCTTATAGAGC 2137
DB 697 GGCCTTAATTTTAGAGAGATGTCCTGAGAGCACTTATCAAAAGGCTTCTTATAGAGC 638
QY 2138 GCTACAGCCCTTCTCAGAGAGATTTATCATTTGTCCTCCCAAGAGAGAGCTAGAGAGATT 2197
DB 637 GCTACAGCCCTTCTCAGAGAGATTTATCATTTGTCCTCCCAAGAGAGAGCTAGAGAGATT 578
QY 2198 GAGGTGATGACCTCCCACTGCGCTCAGAGAGCTGACCTTATTTAGAAAAACCAAGAGGCT 2257
DB 577 GAGGTGATGACCTCCCACTGCGCTCAGAGAGCTGACCTTATTTAGAAAAACCAAGAGGCT 518
QY 2258 GGGTTGAACTTACTCTACGAGACTTGATTCAGTCCGACACTTTCCTGCGAAAAAGGCT 2317
DB 517 GGGTTGAACTTACTCTACGAGACTTGATTCAGTCCGACACTTTCCTGCGAAAAAGGCT 458
QY 2318 TCTCCCGACGACCCCGAGATGGGGGTAAAGAGAAAGACAGAGGCTTGGGGTAAAGGCGAC 2377
DB 457 TCTCCCGACGACCCCGAGATGGGGGTAAAGAGAAAGACAGAGGCTTGGGGTAAAGGCGAC 398
QY 2378 CTGGTGTAAACA-GGCACTTCTCTCTGAGGCTTATTTTGTTCAGAACTTAGAC 2436
DB 397 CTGGTGTAAACAAGGCACTTCTCTCTGAGGCTTATTTTGTTCAGAACTTAGAC 338
QY 2437 CAGAGTGTTTGAACCTCTTTCAGAGAGGCTGGGAAATCTTTTAGAGCACTTAATCT 2496
DB 337 CAGAGTGTTTGAACCTCTTTCAGAGAGGCTGGGAAATCTTTTAGAGCACTTAATCT 278
QY 2497 ATTATCCCTGGAAATGCGGCTGAGCAGTAGAGAGGCTGGCTTTGGAGCTCCCTGA 2556
DB 277 ATTATCCCTGGAAATGCGGCTGAGCAGTAGAGAGGCTGGCTTTGGAGCACTTCCGA 218
QY 2557 CCCCCGCGCTGCGCCGCCCTCCCGGG 2581
DB 217 CCCCCGCGCTGCGCCGCCCTCCCGGG 193
XX
XX RESULT 10
XX AAK83430/C
XX ID AAK83430 standard; DNA; 476 BP.
XX
XX AC AAK83430;
XX
XX DT 07-NOV-2001 (first entry)
XX
XX DS Human immune/haematopoietic antigen genomic sequence SEQ ID NO:38242.
XX
XX KW Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
XX cytostatic; gene therapy; vaccine; metastasis; ds.
XX
XX OS Homo sapiens.
XX
XX PN MO200157182-A2.
XX
XX PD 09-AUG-2001.
XX
XX PF 17-JAN-2001; 2001WO-US001354.
XX
XX PR 31-JAN-2000; 2000US-0179065P.
XX PR 04-FEB-2000; 2000US-0180628P.
XX PR 24-FEB-2000; 2000US-0184664P.
XX PR 02-MAR-2000; 2000US-0186350P.
XX PR 16-MAR-2000; 2000US-0189874P.
XX PR 17-MAR-2000; 2000US-0190076P.
XX PR 18-APR-2000; 2000US-0198123P.
XX PR 19-MAY-2000; 2000US-0205513P.
XX PR 07-JUN-2000; 2000US-0209467P.
XX PR 28-JUN-2000; 2000US-0214886P.
XX PR 30-JUN-2000; 2000US-0215135P.
XX PR 07-JUL-2000; 2000US-0216647P.
XX PR 07-JUL-2000; 2000US-0216880P.
```



CC protein. (1) proteins and polynucleotides may be used to prevent,  
CC diagnose and treat immune/haematopoietic-related diseases, especially  
CC cancers and cancer metastases of haematopoietic-derived cells. AAK44703  
CC to AAK87694 represent human immune/haematopoietic antigen genomic  
CC sequences from the present invention. AAK54942 to AAK54950 and AAK62169  
CC represent sequences used in the exemplification of the present invention  
XX  
SQ Sequence 476 BP; 59 A; 190 C; 157 G; 70 T; 0 U; 0 Other;  
Query Match 15.1%; Score 471; DB 4; Length 476;  
Best Local Similarity 100.0%; Pred. No. 2.5e-209;  
Matches 471; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 716 CGGTGCGCCCGGAGGAGTCAAGGACCAATGAAAGGCTTGTGTCGCCGCGGCCCAAGGCCG 775  
DB 476 CGGTGCGCCCGGAGGAGTCAAGGACCAATGAAAGGCTTGTGTCGCCGCGGCCCAAGGCCG 417  
QY 776 GGATGGGGGTTTGGCCACATCTGCGCGCTGAGGGGGAGGCTTAAAGGGGCGGGGCGCG 835  
DB 416 GGATGGGGGTTTGGCCACATCTGCGCGCTGAGGGGGAGGCTTAAAGGGGCGGGGCGCG 357  
QY 836 GGCCCGAGCCGAGCCCAACCGCGATGCGAGGAGGAGTGAAGGCGCTGCTGGAACGGGCT 895  
DB 356 GGCCCGAGCCGAGCCCAACCGCGATGCGAGGAGGAGTGAAGGCGCTGCTGGAACGGGCT 297  
QY 896 CAACAAGACGATGCTGCTTACCACTCTGCTGACCCGTCGCTGCTGCTGCTGCTGCTGCTGCT 955  
DB 296 CAACAAGACGATGCTGCTTACCACTCTGCTGACCCGTCGCTGCTGCTGCTGCTGCTGCTGCT 237  
QY 956 GCAGAACCTGCGCGCGAGAGCTGCAAAAGACGCGCCAGAAAGGCGCGAGAGCTGCGGCTGTC 1015  
DB 236 GCAGAACCTGCGCGCGAGAGCTGCAAAAGACGCGCCAGAAAGGCGCGAGAGCTGCGGCTGTC 177  
QY 1016 CACTGTCGCGCGCGAGAGCTGCTGTGCTGCGCGACCGGGGCTGAGCGCGAGCGAGCGCGC 1075  
DB 176 CACTGTCGCGCGCGAGAGCTGCTGTGCTGCGCGACCGGGGCTGAGCGCGAGCGAGCGCGC 117  
QY 1076 CGAGTTCCAGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1135  
DB 116 CGAGTTCCAGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 57  
QY 1136 GCGAGCGCTGCTGAGAGCTGAGGCGCGCGTTCGCGCGACGCGCGCGCGCG 1186  
DB 56 GCGAGCGCTGCTGAGAGCTGAGGCGCGCGTTCGCGCGACGCGCGCGCGCG 6  
RESULT 11  
AAK83427/C  
ID AAK83427 standard; DNA; 476 BP.  
XX  
AC AAK83427;  
XX  
DT 07-NOV-2001 (first entry)  
XX  
DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:38239.  
XX  
KW Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;  
XX cytostatic; gene therapy; vaccine; metastasis; ds.  
XX  
OS Homo sapiens.  
XX  
PN WO200157182-A2.  
XX  
PD 09-AUG-2001.  
XX  
PF 17-JAN-2001; 2001WO-US001354.  
XX  
PR 31-JAN-2000; 2000US-0179065P.  
XX 04-FEB-2000; 2000US-0180628P.  
XX 24-FEB-2000; 2000US-0184664P.  
XX 02-MAR-2000; 2000US-0186350P.  
XX 16-MAR-2000; 2000US-0189874P.  
XX 17-MAR-2000; 2000US-0190076P.

PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 11-JUL-2000; 2000US-0217496P.  
PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226868P.  
PR 22-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230437P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232088P.  
PR 08-SEP-2000; 2000US-0232089P.  
PR 12-SEP-2000; 2000US-0232081P.  
PR 14-SEP-2000; 2000US-0232397P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 26-SEP-2000; 2000US-0234984P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235836P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236367P.  
PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0236803P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 13-OCT-2000; 2000US-0239935P.  
PR 13-OCT-2000; 2000US-0239937P.

PR 20-OCT-2000; 2000US-0240960P.  
 PR 20-OCT-2000; 2000US-0241221P.  
 PR 20-OCT-2000; 2000US-0241785P.  
 PR 20-OCT-2000; 2000US-0241786P.  
 PR 20-OCT-2000; 2000US-0241787P.  
 PR 20-OCT-2000; 2000US-0241808P.  
 PR 20-OCT-2000; 2000US-0241809P.  
 PR 20-OCT-2000; 2000US-0241826P.  
 PR 01-NOV-2000; 2000US-0244617P.  
 PR 08-NOV-2000; 2000US-0244617P.  
 PR 08-NOV-2000; 2000US-0246475P.  
 PR 08-NOV-2000; 2000US-0246476P.  
 PR 08-NOV-2000; 2000US-0246477P.  
 PR 08-NOV-2000; 2000US-0246478P.  
 PR 08-NOV-2000; 2000US-0246523P.  
 PR 08-NOV-2000; 2000US-0246524P.  
 PR 08-NOV-2000; 2000US-0246525P.  
 PR 08-NOV-2000; 2000US-0246526P.  
 PR 08-NOV-2000; 2000US-0246527P.  
 PR 08-NOV-2000; 2000US-0246528P.  
 PR 08-NOV-2000; 2000US-0246532P.  
 PR 08-NOV-2000; 2000US-0246609P.  
 PR 08-NOV-2000; 2000US-0246610P.  
 PR 08-NOV-2000; 2000US-0246611P.  
 PR 08-NOV-2000; 2000US-0246613P.  
 PR 17-NOV-2000; 2000US-0249207P.  
 PR 17-NOV-2000; 2000US-0249208P.  
 PR 17-NOV-2000; 2000US-0249209P.  
 PR 17-NOV-2000; 2000US-0249210P.  
 PR 17-NOV-2000; 2000US-0249211P.  
 PR 17-NOV-2000; 2000US-0249212P.  
 PR 17-NOV-2000; 2000US-0249213P.  
 PR 17-NOV-2000; 2000US-0249214P.  
 PR 17-NOV-2000; 2000US-0249215P.  
 PR 17-NOV-2000; 2000US-0249216P.  
 PR 17-NOV-2000; 2000US-0249217P.  
 PR 17-NOV-2000; 2000US-0249218P.  
 PR 17-NOV-2000; 2000US-0249244P.  
 PR 17-NOV-2000; 2000US-0249245P.  
 PR 17-NOV-2000; 2000US-0249246P.  
 PR 17-NOV-2000; 2000US-0249264P.  
 PR 17-NOV-2000; 2000US-0249265P.  
 PR 17-NOV-2000; 2000US-0249297P.  
 PR 17-NOV-2000; 2000US-0249297P.  
 PR 17-NOV-2000; 2000US-0249299P.  
 PR 01-DEC-2000; 2000US-0250160P.  
 PR 01-DEC-2000; 2000US-0250391P.  
 PR 05-DEC-2000; 2000US-0251030P.  
 PR 05-DEC-2000; 2000US-0251988P.  
 PR 06-DEC-2000; 2000US-0251719P.  
 PR 08-DEC-2000; 2000US-0251856P.  
 PR 08-DEC-2000; 2000US-0251868P.  
 PR 08-DEC-2000; 2000US-0251869P.  
 PR 08-DEC-2000; 2000US-0251899P.  
 PR 08-DEC-2000; 2000US-0251909P.  
 PR 11-DEC-2000; 2000US-0254097P.  
 PR 05-JAN-2001; 2001US-0259678P.  
 XX  
 PA (HUMA-) HUMAN GENOME SCI INC.  
 XX  
 PI Rosen CA, Barash SC, Ruben SM;  
 XX WPI; 2001-483426/52.  
 DR  
 XX  
 PT Nucleic acids encoding human immune/hematopoietic antigen polypeptides,  
 XX useful for preventing, diagnosing and/or treating cancers and metastasis.  
 PS  
 PS Disclosure; SEQ ID NO 38239; 3071bp + Sequence Listing; English.  
 XX  
 CC AAK54951 to AAK64702 encode the human immune/hematopoietic antigen (I)  
 CC amino acid sequences given in AAM62170 to AAM91921. (I) have cytostatic  
 CC activity, and can be used in gene therapy and vaccine production. (I)  
 CC proteins and polynucleotides may be used in the prevention, diagnosis and

CC treatment of diseases associated with inappropriate (I) expression. For  
 CC example, they may be used to treat disorders associated with decreased  
 CC expression by rectifying mutations or deletions in a patient's genome  
 CC that affect the activity of (I) by expressing inactive proteins or to  
 CC supplement the patient's own production of (I). Additionally, (I)  
 CC polynucleotides may be used to produce the secreted (I), by inserting the  
 CC nucleic acids into a host cell and culturing the cell to express the  
 CC protein. (I) proteins and polynucleotides may be used to prevent,  
 CC diagnose and treat immune/hematopoietic-related diseases, especially  
 CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703  
 CC to AAK67694 represent human immune/hematopoietic antigen genomic  
 CC sequences from the present invention. AAK54942 to AAK54950 and AAM62169  
 CC represent sequences used in the exemplification of the present invention  
 XX  
 SQ Sequence 476 BP; 59 A; 190 C; 157 G; 70 T; 0 U; 0 Other;

Query Match 15.1%; Score 471; DB 4; Length 476;  
 Best Local Similarity 100.0%; Pred. No. 2.5e-209; Indels 0; Gaps 0;  
 Matches 471; Conservative 0; Mismatches 0;

QY 716 CGGTAGCCCGCAGCGAATGTCACGACCATGAAAGAGCTTCGTGCGCGCGGCCCAAGCCG 775  
 Db 476 CGGTAGCCCGCAGCGAATGTCACGACCATGAAAGAGCTTCGTGCGCGCGGCCCAAGCCG 417  
 QY 776 GGAATGGGGGTTAGCCACATCTCTGCGCGCTGAGGGGGAGGCTTAAAGGGCCGGCGCG 835  
 Db 416 GGAATGGGGGTTAGCCACATCTCTGCGCGCTGAGGGGGAGGCTTAAAGGGCCGGCGCGCG 357  
 QY 836 GGGCCAGCCCGAGCCCGCCCGGATGGCGAAGGAGAGTGAAGGCGCTGTGACCGGGCT 895  
 Db 356 GGGCCAGCCCGAGCCCGCCCGGATGGCGAAGGAGAGTGAAGGCGCTGTGACCGGGCT 297  
 QY 896 CAACAAAGACGATGCGTGTGCTACCAACACCTGTGTGTGACCGGTGGTCTCGCGGACCTC 955  
 Db 296 CAACAAAGACGATGCGTGTGCTACCAACACCTGTGTGTGACCGGTGGTCTCGCGGACCTC 237  
 QY 956 GCAGAACCTGCGCGAGAGGCTGCAAAAGACCGCGCAGAGGCGCAGAGGCTGGCGGTGTC 1015  
 Db 236 GCAGAACCTGCGCGAGAGGCTGCAAAAGACCGCGCAGAGGCGCAGAGGCTGGCGGTGTC 177  
 QY 1016 CACCTGGCCCGCGCTGACTGTGTGCTGTGCGCGACCGGGGGCTGTGGCGCGACGAGCGCGC 1075  
 Db 176 CACCTGGCCCGCGCTGACTGTGTGCTGTGCGCGACCGGGGGCTGTGGCGCGACGAGCGCGC 117  
 QY 1076 CGAATTGAGCGGCTCTGGGTGCGCTTCTCGGGCTGTGCTGACCTGTGGAAGCGGACAT 1135  
 Db 116 CGAATTGAGCGGCTCTGGGTGCGCTTCTCGGGCTGTGCTGACCTGTGGAAGCGGACAT 57  
 QY 1136 GCGACGCTGCTGTGAGCTGTGGCGCGCGGTTCCGCTGTACAGCGCGCGCGCG 1186  
 Db 56 GCGACGCTGCTGTGAGCTGTGGCGCGCGGTTCCGCTGTACAGCGCGCGCGCGCG 6

RESULT 12  
 AAK83426/c  
 ID AAK83426 standard; DNA; 476 BP.  
 XX  
 AC AAK83426;

XX 07-NOV-2001 (first entry)  
 XX  
 XX Human immune/hematopoietic antigen genomic sequence SEQ ID NO:38238.  
 XX  
 XX Human; immune; haematopoietic; immune/hematopoietic antigen; cancer;  
 KW cytostatic; gene therapy; vaccine; metastasis; de.  
 XX  
 OS Homo sapiens.  
 XX  
 PN MO200157182-A2.  
 XX  
 PD 09-AUG-2001.  
 XX  
 PF 17-JAN-2001; 2001WO-US001354.





XX Disclosure; SEQ ID NO 38238; 3071bp + Sequence Listing; English.  
XX  
XX AAK54951 to AAK54702 encode the human immune/haematopoietic antigen (I)  
CC amino acid sequences given in AAM82110 to AAM91921. (I) have cytosolic  
CC activity, and can be used in gene therapy and vaccine production. (I)  
CC proteins and polynucleotides may be used in the prevention, diagnosis and  
CC treatment of diseases associated with inappropriate (I) expression. For  
CC example, they may be used to treat disorders associated with decreased  
CC expression by rectifying mutations or deletions in a patient's genome  
CC that affect the activity of (I) by expressing inactive proteins or to  
CC supplement the patients own production of (I). Additionally, (I)  
CC polynucleotides may be used to produce the secreted (I), by inserting the  
CC nucleic acids into a host cell and culturing the cell to express the  
CC protein. (I) proteins and polynucleotides may be used to prevent,  
CC diagnose and treat immune/haematopoietic-related diseases, especially  
CC cancers and cancer metastases of haematopoietic-derived cells. AAK54703  
CC to AAK87694 represent human immune/haematopoietic antigen genomic  
CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169  
CC represent sequences used in the exemplification of the present invention  
XX  
XX Sequence 476 BP; 58 A; 191 C; 157 G; 70 T; 0 U; 0 Other;

## RESULT 14

ABN50582  
ID ABN50582 standard; DNA; 60 BP.

XX ABN50582;

XX 15-JUL-2002 (first entry)

XX Human spliced transcript detection oligonucleotide SEQ ID NO:23330.

XX Human; mouse; rat; splice transcript; detection; RNA transcript;

XX splice variant; transcriptome; oligonucleotide library; ss.

XX Homo sapiens.

XX WO200210449-A2.

XX 07-FEB-2002.

XX 20-JUL-2001; 2001WO-1B001903.

XX 28-JUL-2000; 2000US-0221607P.

XX 02-MAY-2001; 2001US-0287724P.

XX (COMP-) COMPUGEN INC.

XX Shoshan A, Wasserman A, Mintz E, Mintz L, Faigler S;

XX WPI; 2002-257383/30.

XX New oligonucleotide libraries comprising oligonucleotides which  
 PT selectively hybridize to mRNAs transcribed from a transcription unit of a  
 PT genome, useful for detecting tissue-, pathology-, and developmental-  
 PT specific genes.

XX Example 1; SEQ ID NO 23330; 47pp; English.

XX The present invention describes oligonucleotide libraries for detecting  
 CC messenger RNAs that populate a (sub-)transcriptome, where the (sub-  
 CC )transcriptome comprises messenger RNAs transcribed from multiple  
 CC transcription units that populate a genome. The library comprises several  
 CC oligonucleotides, each capable of hybridizing selectively to a set of  
 CC messenger RNAs transcribed from a given transcription unit of the genome,  
 CC which encodes one or more messenger RNA splice variants. The  
 CC oligonucleotide libraries are useful for detecting mRNAs from a  
 CC biological sample, in expression profiling studies, in qualitatively or  
 CC quantitatively characterizing the corresponding transcriptome, and in  
 CC detecting RNA transcripts and splice variants of human or animal  
 CC transcripts. The libraries may also be used as specialised mini  
 CC libraries to detect transcripts of a sub-transcriptome under a particular  
 CC biological or pathological state, and so allowing the detection of tissue  
 CC - and pathology-specific genes such as those genes only expressed in  
 CC specific tissue under a specific pathological condition; to detect  
 CC developmental specific genes; and to detect RNA transcripts and splice  
 CC variants of a transcriptome of a patient suffering from a particular  
 CC disorder. ABN27251 to ABN59589 represent oligonucleotide sequences from  
 CC rat, humans and mice, which are used in the exemplification of the  
 CC present invention. N.B. The sequence data for this patent did not form  
 CC part of the printed specification, but was obtained in electronic format  
 CC directly from WIPO at [ftp.wipo.int/pub/published\\_pot\\_sequences](http://ftp.wipo.int/pub/published_pot_sequences)

XX Sequence 60 BP; 11 A; 14 C; 16 G; 19 T; 0 U; 0 Other;

XX Query Match 1.9%; Score 60; DB 6; Length 60;

XX Best Local Similarity 100.0%; Pred. No. 3.5e-17;

XX Matches 60; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX 2464 GGGCTGGGAATCCTCTTAGAGCACTTATCTATTATACCCCTGGAAATGCGGCTGG 2523

DB 1 GGGCTGGGAATCCTCTTAGAGCACTTATCTATTATACCCCTGGAAATGCGGCTGG 60

## RESULT 15

ABK83571/C  
ID ABK83571 standard; CDNA; 175737 BP.

XX ABK83571;

XX 14-AUG-2002 (first entry)

XX Human CDNA differentially expressed in granulocytic cells #142.

XX Human; ss; granulocytic cell; DNA chip; bacterial infection;

XX viral infection; parasitic infection; protozoal infection;

XX fungal infection; sterile inflammatory disease; psoriasis;

XX rheumatoid arthritis; glomerulonephritis; asthma; thrombosis;

XX cardiac reperfusion injury; renal reperfusion injury; ARDS;

XX adult respiratory distress syndrome; inflammatory bowel disease;

XX Crohn's disease; ulcerative colitis; periodontal disease;

XX granulocyte activation; chronic inflammation; allergy.

XX Homo sapiens.

XX WO200228999-A2.

XX 11-APR-2002.

XX 03-OCT-2001; 2001WO-US030821.

XX 03-OCT-2000; 2000US-0237189P.

XX (GENE-) GENE LOGIC INC.

XX Beazer-Barclay Y, Weissman SM, Yamaga S, Vockley J;

XX WPI; 2002-435328/46.

XX Detecting granulocyte activation by detecting differential expression of  
 PT genes associated with granulocyte activation, which serves as diagnostic  
 PT markers that is useful for monitoring disease states and drug toxicity.

XX Claim 1; SEQ ID NO 142; 114pp; English.

XX The invention relates to detecting (M1) granulocyte (GC) activation  
 CC (GCA), by detecting the level of expression of gene(s) (Gs) identified by  
 CC DNA chip analysis as given in the specification, and comparing the  
 CC expression level to an expression level in an unactivated GC, where  
 CC differential expression of Gs is indicative of GCA. Also included are  
 CC modulating (M2) GA by contacting GC with an agent that alters the  
 CC expression of at least one gene in Gs; (2) screening (M3) for an agent  
 CC capable of modulating GCA or an inflammation (especially chronic) in a  
 CC tissue, an allergic response in a subject, exposure of a subject to a  
 CC pathogen or sterile inflammatory disease using the gene expression  
 CC profile; (3) detecting (M4) an inflammation (especially chronic) in a  
 CC tissue, an allergic response in a subject, exposure of a subject to a  
 CC pathogen or sterile inflammatory disease, by detecting the level of  
 CC expression in a sample of the tissue of gene(s) from Gs, where the level  
 CC of expression of the gene is indicative of inflammation; (4) treating  
 CC (M5) an inflammation (especially chronic) or in a tissue, an allergic  
 CC response in a subject, exposure of a subject to a pathogen or sterile  
 CC inflammatory disease, by contacting a tissue having inflammation with an  
 CC agent that modulates the expression of gene(s) from Gs in the tissue. M1  
 CC is useful for detecting GCA; M2 is useful for modulating GA; M3 is useful  
 CC for screening an agent capable of modulating GCA preferably in an  
 CC inflammation in a tissue; M4 is useful for detecting an inflammation  
 CC (especially chronic) in a tissue, an allergic response in a subject,  
 CC exposure of a subject to a pathogen or sterile inflammatory disease (e.g.  
 CC psoriasis, rheumatoid arthritis, glomerulonephritis, asthma, thrombosis,  
 CC cardiac reperfusion injury, renal reperfusion injury, ARDS, adult  
 CC respiratory distress syndrome, inflammatory bowel disease, Crohn's  
 CC disease, ulcerative colitis, periodontal disease, also bacterial  
 CC infection, viral infection, parasitic infection, protozoal infection,  
 CC fungal infection and M5 is useful for treating one of the above  
 CC conditions. The present sequence represents a gene differentially  
 CC expressed in granulocytes. Note: The sequence data for this patent did

CC not form part of the printed specification, but was obtained in  
CC electronic format directly from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX

SO Sequence 175737 BP; 41985 A; 43790 C; 42407 G; 47555 T; 0 U; 0 Other;

Query Match 1.7%; Score 53; DB 6; Length 175737;

Best Local Similarity 100.0%; Pred. No. 4.9e-14;  
Matches 53; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2888 TGAGGCGAGTGGATCCTTGAGGCCAGAGTTGAGACCAAGCTGGCCAAAT 2940  
DB 47829 TGAGGCGAGTGGATCCTTGAGGCCAGAGTTGAGACCAAGCTGGCCAAAT 47777

RESULT 16

ADL13596/C  
ID ADL13596 standard; DNA; 175737 BP.

XX ADL13596;

DT 06-MAY-2004 (first entry)

XX Osteoarthritis-associated polymorphic nucleotide #128.

XX day; gene; osteopathic; antiinflammatory; antiarthritic; gene therapy;

XX joint space narrowing; osteophyte development; joint pain;

XX osteoarthritis; SNP; single nucleotide polymorphism.

XX Homo sapiens.

XX W02003054166-A2.

XX W02003054166-A2.

XX 03-JUL-2003.

XX 19-DEC-2002; 2002WO-US041225.

XX 20-DEC-2001; 2001US-0342603P.

XX (INCY-) INCYTE GENOMICS INC.

XX Jones KA, Schaffer A;

XX WPI; 2003-559141/52.

XX The invention relates to a method of determining susceptibility of an

XX individual to joint space narrowing and/or osteophyte development and/or

XX joint pain comprising identifying whether the individual has at least one

XX polymorphism in a polynucleotide encoding at least one of the protein

XX listed in the specification. The methods, composition and agent are

XX useful for modulating the susceptibility of an individual to joint space

XX narrowing and/or osteophyte development and/or joint pain that is

XX associated with a disease, preferably osteoarthritis. The cell line and

XX the non-human animal are useful for screening for an agent for diagnosing

XX an individual having susceptibility to joint space narrowing and/or

XX osteophyte development and/or joint pain. This sequence corresponds to

XX the polynucleotide encoding a protein listed in the specification. (Note:

XX The sequence data for this patent did not form part of the printed

XX specification but was obtained in electronic format directly from WIPO at

XX ftp.wipo.int/pub/published\_pct\_sequences).

OY 2888 TGAGGCGAGTGGATCCTTGAGGCCAGAGTTGAGACCAAGCTGGCCAAAT 2940  
DB 47829 TGAGGCGAGTGGATCCTTGAGGCCAGAGTTGAGACCAAGCTGGCCAAAT 47777

RESULT 17  
ADQ18934/C  
ID ADQ18934 standard; DNA; 175737 BP.

XX ADQ18934;

XX 26-AUG-2004 (first entry)

XX Human soft tissue sarcoma-upregulated DNA - SEQ ID 1753.

XX soft tissue sarcoma; cytostatic; gene therapy; vaccine; screening; human;

XX db.

XX Homo sapiens.

XX W02004048938-A2.

XX 10-JUN-2004.

XX 26-NOV-2003; 2003WO-US038193.

XX 26-NOV-2002; 2002US-0429739P.

XX (PROT-) PROTEIN DESIGN LABS INC.

XX Aziz N, Ginsburg WM, Zlotnik A;

XX WPI; 2004-441208/41.

XX Early detection of soft tissue sarcoma comprises determining expression

XX of a gene in a first soft tissue sample and a normal soft tissue sample

XX and comparing the gene expression, also useful in treating soft tissue

XX sarcoma.

XX Example 2; SEQ ID NO 1753; 210pp; English.

XX The invention relates to a novel method for detecting soft tissue sarcoma

XX which comprises obtaining a first soft tissue sample from an individual

XX and a normal soft tissue sample from the same or different individual,

XX determining the expression of a gene in both samples and comparing the

XX expression of the gene in both soft tissue samples, where a higher level

XX of protein expression in the first soft tissue sample indicates the

XX presence of soft tissue sarcoma. The method of the invention has

XX cytostatic applications and may be useful for detecting soft tissue

XX sarcoma, possibly via gene therapy or vaccine production. The nucleic

XX acid sequences may be useful in diagnostic and screening applications.

XX The current sequence is that of a human soft tissue sarcoma-upregulated

XX DNA of the invention. The current sequence is not shown within the

XX specification per se but was submitted in CD format by the inventor.

XX Sequence 175737 BP; 41985 A; 43790 C; 42407 G; 47555 T; 0 U; 0 Other;

XX Query Match 1.7%; Score 53; DB 12; Length 175737;

XX Best Local Similarity 100.0%; Pred. No. 4.9e-14;  
XX Matches 53; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 18

AAC03795/C  
ID AAC03795 standard; cDNA; 381 BP.

XX AAC03795;

XX AAC03795;

DT 06-OCT-2000 (first entry)  
XX  
DE Human secreted protein 5' EST, SEQ ID NO: 3793.  
XX  
KM Human; 5' EST; expressed sequence tag; secreted protein; cDNA isolation;  
XX gene therapy; chromosome mapping; ss.  
XX  
OS Homo sapiens.  
XX  
PN EP1033401-A2.  
XX  
PD 06-SEP-2000.  
XX  
PF 21-FEB-2000; 2000EP-00200610.  
XX  
PR 26-FEB-1999; 99US-0122487P.  
XX (GSEST ) GENSEST.  
XX  
PI Dumas Milne Edwards J, Duclert A, Giordano J;  
XX  
PS WPI: 2000-500381/45.  
XX P-PSDB; AAG03789.  
XX  
PT New nucleic acid that is a 5' expressed sequence tag (5' EST) for  
XX obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for  
XX diagnostic, forensic, gene therapy and chromosome mapping procedures.  
XX  
PS Claim 1; SEQ ID NO 3793; 71pp + Sequence Listing; English.  
XX  
CC The present sequence is one of a large number of 5' ESTs derived from  
XX mRNAs encoding secreted proteins. An ORF has been identified within the  
XX sequence. The 5' ESTs were prepared from total human RNAs or polyA+ RNAs  
XX derived from 30 different tissues. EST sequences usually correspond  
XX mainly to the 3' untranslated region (UTR) of the mRNA because they are  
XX often obtained from oligo-dT primed cDNA libraries. Such ESTs are not  
XX well suited for isolating cDNA sequences derived from the 5' ends of  
XX mRNAs and even in those cases where longer cDNA sequences have been  
XX obtained, the full 5' UTR is rarely included. 5' ESTs are derived from  
XX mRNAs with intact 5' ends and can therefore be used to obtain full length  
XX cDNAs and genomic DNAs. 5' ESTs are also used in diagnostic, forensic,  
XX gene therapy and chromosome mapping procedures. They are used to obtain  
XX upstream regulatory sequences and to design expression and secretion  
XX vectors  
XX  
SQ Sequence 381 BP; 73 A; 98 C; 84 G; 123 T; 0 U; 3 Other;  
XX  
Query Match 1.7%; Score 52; DB 3; Length 381;  
Best Local Similarity 100.0%; Pred. No. 1.8e-13;  
Matches 52; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
XX  
QY 3071 CAAGATTGTGCACTGCAGCTCCAGCTTGGGCAACAGAGCAAGACTCTGTCTC 3122  
DB 107 CAAGATTGTGCACTGCAGCTCCAGCTTGGGCAACAGAGCAAGACTCTGTCTC 56  
XX  
RESULT 19  
AA578337/c  
ID AA578337 standard; cDNA; 1437 BP.  
XX  
AC AA578337;  
XX  
DT 13-FEB-2002 (first entry)  
XX  
DE DNA encoding novel human diagnostic protein #14141.  
XX  
KM Human; chromosome mapping; gene mapping; gene therapy; forensic;  
XX food supplement; medical imaging; diagnostic; genetic disorder; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO200175067-A2.  
XX

PD 11-OCT-2001.  
XX  
XX 30-MAR-2001; 2001WO-US0008631.  
XX  
PF 31-MAR-2000; 2000US-00540217.  
XX  
PR 23-AUG-2000; 2000US-00649167.  
XX  
XX (HYSB-) HYSEQ INC.  
XX  
PI Dymnac RT, Liu C, Tang YT;  
XX  
XX WPI: 2001-639362/73.  
XX P-PSDB; ABG14150.  
XX  
PT New isolated polynucleotide and encoded polypeptides, useful in  
XX diagnostics, forensics, gene mapping, identification of mutations  
XX responsible for genetic disorders or other traits and to assess  
XX biodiversity.  
XX  
PS Claim 1; SEQ ID NO 14141; 103pp; English.  
XX  
XX The invention relates to isolated polynucleotide (I) and polypeptide (II)  
XX sequences. (I) is useful as hybridisation probes, polymerase chain  
XX reaction (PCR) primers, oligomers, and for chromosome and gene mapping,  
XX and in recombinant production of (II). The polynucleotides are also used  
XX in diagnostics as expressed sequence tags for identifying expressed  
XX genes. (I) is useful in gene therapy techniques to restore normal  
XX activity of (II) or to treat disease states involving (II). (II) is  
XX useful for generating antibodies against it, detecting or quantitating a  
XX polypeptide in tissue, as molecular weight markers and as a food  
XX supplement. (II) and its binding partners are useful in medical imaging  
XX of sites expressing (II). (I) and (II) are useful for treating disorders  
XX involving aberrant protein expression or biological activity. The  
XX polypeptide and polynucleotide sequences have applications in  
XX diagnostics, forensics, gene mapping, identification of mutations  
XX responsible for genetic disorders or other traits to assess biodiversity  
XX and to produce other types of data and products dependent on DNA and  
XX amino acid sequences. AAS64197-AAS94564 represent novel human diagnostic  
XX coding sequences of the invention. Note: The sequence data for this  
XX patent did not appear in the printed specification, but was obtained in  
XX electronic format directly from WIPO at  
XX ftp.wipo.int/pub/published\_pct\_sequences  
XX  
SQ Sequence 1437 BP; 282 A; 398 C; 395 G; 362 T; 0 U; 0 Other;  
XX  
Query Match 1.7%; Score 52; DB 5; Length 1437;  
Best Local Similarity 100.0%; Pred. No. 1.7e-13;  
Matches 52; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
XX  
QY 3071 CAAGATTGTGCACTGCAGCTCCAGCTTGGGCAACAGAGCAAGACTCTGTCTC 3122  
DB 243 CAAGATTGTGCACTGCAGCTCCAGCTTGGGCAACAGAGCAAGACTCTGTCTC 192  
XX  
RESULT 20  
AA106207/c  
ID AA106207 standard; DNA; 9620 BP.  
XX  
AC AA106207;  
XX  
DT 21-NOV-2001 (first entry)  
XX  
DE Human reproductive system related antigen DNA SEQ ID NO: 8895.  
XX  
KM Human; reproductive system related antigen; reproductive system disorder;  
XX cancer; gene therapy; ds.  
XX  
OS Homo sapiens.  
XX  
PN WO200155320-A2.  
XX  
PD 02-AUG-2001.  
XX

PR	9-SEP-2000	2000US-0236370P
PR	02-OCT-2000	2000US-0236803P
PR	02-OCT-2000	2000US-0237037P
PR	02-OCT-2000	2000US-0237038P
PR	02-OCT-2000	2000US-0237039P
PR	02-OCT-2000	2000US-0237040P
PR	13-OCT-2000	2000US-0239335P
PR	13-OCT-2000	2000US-0239337P
PR	20-OCT-2000	2000US-0240960P
PR	20-OCT-2000	2000US-0241221P
PR	20-OCT-2000	2000US-0241785P
PR	20-OCT-2000	2000US-0241786P
PR	20-OCT-2000	2000US-0241787P
PR	20-OCT-2000	2000US-0241808P
PR	20-OCT-2000	2000US-0241809P
PR	01-NOV-2000	2000US-02441826P
PR	01-NOV-2000	2000US-0244617P
PR	08-NOV-2000	2000US-0246475P
PR	08-NOV-2000	2000US-0246476P
PR	08-NOV-2000	2000US-0246477P
PR	08-NOV-2000	2000US-0246478P
PR	08-NOV-2000	2000US-0246523P
PR	08-NOV-2000	2000US-0246524P
PR	08-NOV-2000	2000US-0246525P
PR	08-NOV-2000	2000US-0246526P
PR	08-NOV-2000	2000US-0246527P
PR	08-NOV-2000	2000US-0246528P
PR	08-NOV-2000	2000US-0246532P
PR	08-NOV-2000	2000US-0246609P
PR	08-NOV-2000	2000US-0246610P
PR	08-NOV-2000	2000US-0246611P
PR	08-NOV-2000	2000US-0246613P
PR	17-NOV-2000	2000US-0249207P
PR	17-NOV-2000	2000US-0249208P
PR	17-NOV-2000	2000US-0249209P
PR	17-NOV-2000	2000US-0249210P
PR	17-NOV-2000	2000US-0249211P
PR	17-NOV-2000	2000US-0249212P
PR	17-NOV-2000	2000US-0249213P
PR	17-NOV-2000	2000US-0249214P
PR	17-NOV-2000	2000US-0249215P
PR	17-NOV-2000	2000US-0249216P
PR	17-NOV-2000	2000US-0249217P
PR	17-NOV-2000	2000US-0249218P
PR	17-NOV-2000	2000US-0249244P
PR	17-NOV-2000	2000US-0249245P
PR	17-NOV-2000	2000US-0249264P
PR	17-NOV-2000	2000US-0249265P
PR	17-NOV-2000	2000US-0249297P
PR	17-NOV-2000	2000US-0249299P
PR	17-NOV-2000	2000US-0249300P
PR	01-DEC-2000	2000US-0250160P
PR	01-DEC-2000	2000US-0250391P
PR	05-DEC-2000	2000US-0250130P
PR	05-DEC-2000	2000US-0251988P
PR	05-DEC-2000	2000US-0256119P
PR	06-DEC-2000	2000US-0251479P
PR	08-DEC-2000	2000US-0251856P
PR	08-DEC-2000	2000US-0251868P
PR	08-DEC-2000	2000US-0251869P
PR	08-DEC-2000	2000US-0251898P
PR	08-DEC-2000	2000US-0251990P
PR	11-DEC-2000	2000US-0254097P
PR	05-JAN-2001	2001US-0259678P
XX		
PA	(HUMA-) HUMAN GENOME SCI INC.	
XX		
PI	Rosen CA, Barash SC, Ruben	
XX	WPI; 2001-465570/50.	
XX		
PT	Isolated nucleic acid molecule	

(HUMA-) HUMAN GENOME SCI INC.  
Rosen CA, Barash SC, Ruben SM;  
WPI; 2001-465570/50.

PT used in preventing, treating or ameliorating a medical condition.  
XX  
XX Disclosure; SEQ ID NO 8895; 1297pp + Sequence listing; English.  
PS  
XX The present invention provides the protein and coding sequences of a  
CC number of human reproductive system related antigens. These can be used  
CC in the prevention and treatment of reproductive system disorders,  
CC including cancer. The present sequence is a genomic sequence encoding a  
CC protein of the invention  
XX  
SQ Sequence 9620 BP; 2586 A; 2358 C; 2358 G; 2318 T; 0 U; 0 Other;  
Query Match 1.7%; Score 52; DB 4; Length 9620;  
Best Local Similarity 100.0%; Pred. No. 1.6e-13;  
Matches 52; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 3071 CAAGATTGCGACTGCACTCCAGCTGGGCAACAGAGCAAGACTGTCTC 3122  
Db 7058 CAAGATTGCGACTGCACTCCAGCTGGGCAACAGAGCAAGACTGTCTC 7007  
RESULT 21  
AAD31364  
ID AAD31364 standard; DNA; 92139 BP.  
XX  
AC AAD31364;  
XX  
DT 31-MAY-2002 (first entry)  
XX  
XX 92Kb gene fragment in human chromosome 17 at 17q21.  
DE  
XX Human; Van Buchem's disease; genomic deletion; craniofacial hypoplasia;  
KM autosomal recessive disorder; chromosome 17; chromosome 17q21;  
KW bone dysplasia; 92Kb gene fragment; db.  
XX  
XX Homo sapiens.  
OS  
FH Key Location/Qualifiers  
FT misc\_feature 5799..57515  
FT /\*tag= a  
FT /note= "This region is deleted in individuals afflicted  
FT or carriers of Van Buchem's disease"  
XX  
PN WO200210455-A2.  
XX  
XX 07-FEB-2002.  
PD  
XX 30-JUL-2001; 2001WO-US023968.  
PF  
XX 28-JUL-2000; 2000US-0221855P.  
PR 06-JUL-2001; 2001US-030386P.  
PR  
XX (CELL-) CELLTECH R & D INC.  
PA (STRA-) STRAHLING HAMPTON K.  
XX  
PI Brunkow ME, Prohl S, Paepfer B;  
XX  
DR WPI; 2002-227089/28.  
XX  
XX Methods for identifying subjects who are afflicted with or carriers of  
PT diseases associated with genomic deletion(s), e.g. Van Buchem's disease,  
PT by determining the presence of a deletion in the 92 kb region of human  
PT chromosome 17 at 17q21.  
XX  
XX Claim 14; Page 45-72; 109pp; English.  
PS  
XX The present invention relates to methods for distinguishing between  
CC individuals homozygous for and therefore afflicted with Van Buchem's  
CC disease, individuals heterozygous for and therefore carriers of Van  
CC Buchem's disease and individuals who are not afflicted with Van Buchem's  
CC disease comprising identifying a large genomic deletion in chromosome 17 at  
CC 17q21. The method is useful for identifying individuals who are afflicted  
CC with or carriers of diseases associated with one or more genomic

CC deletion, particularly Van Buchem's disease, which is a rare autosomal  
CC recessive disorder that results in a bone dysplasia referred to a  
CC craniofacial hypoplasia. The present sequence is a 92Kb gene fragment in  
CC human chromosome 17 at 17q21  
XX  
SQ Sequence 92139 BP; 23017 A; 22243 C; 23264 G; 23612 T; 0 U; 3 Other;  
Query Match 1.7%; Score 52; DB 6; Length 92139;  
Best Local Similarity 100.0%; Pred. No. 1.5e-13;  
Matches 52; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 2889 GAGGCGGTGATCACTGAGGCCAGAGTTGAGACCAAGCCTGGCAACAT 2940  
Db 85294 GAGGCGGTGATCACTGAGGCCAGAGTTGAGACCAAGCCTGGCAACAT 85345  
RESULT 22  
ADP11613/C  
ID ADP11613 standard; DNA; 130320 BP.  
XX  
AC ADP11613;  
XX  
DT 12-FEB-2004 (first entry)  
XX  
XX Human sclerostin gene region.  
DE  
XX db; osteopathic; gene therapy; bone mineral density;  
KM sclerostin gene region; osteoporosis; osteopenia; bone dysplasia;  
KW bone fracture.  
XX  
XX Homo sapiens.  
OS  
FH Key Location/Qualifiers  
FT variation replace(4103,G)  
FT /\*tag= a  
FT /\*tag= b  
FT variation replace(10357,T)  
FT /\*tag= b  
FT variation replace(10565..10566,AGGAC)  
FT /\*tag= C  
FT replace(117966,G)  
FT /\*tag= d  
FT variation replace(18293,G)  
FT /\*tag= e  
FT variation replace(58083,C)  
FT /\*tag= f  
FT variation replace(74235,G)  
FT /\*tag= g  
FT variation replace(91068,G)  
FT /\*tag= h  
XX  
XX WO2003087763-A2.  
XX  
XX 23-OCT-2003.  
PD  
XX 03-APR-2003; 2003WO-US010649.  
PF  
XX 03-APR-2002; 2002US-0370088P.  
PR  
XX (CELL-) CELLTECH R & D INC.  
PA (UYRO-) UNIV ROTTERDAM ERASMUS.  
XX  
PI Brunkow ME, Chamley PR, Prohl S, Paepfer BW, Uitterlinden AG;  
XX  
DR WPI; 2003-833790/77.  
XX  
XX Determining a risk for or presence of altered bone mineral density (e.g.  
PT osteoporosis) in a subject comprises determining the presence or absence  
PT of a sclerostin gene region nucleotide polymorphism in a biological  
PT sample from a subject.  
XX  
XX Claim 21; SEQ ID NO 1; 114pp; English.  
PS  
XX The invention relates to a method of determining a risk for or presence

CC of altered bone mineral density (BMD) in a subject by determining the  
CC presence or absence of at least one sclerostin gene region nucleotide  
CC polymorphism in a biological sample from a subject where the presence of  
CC at least one polymorphism at a position that corresponds to a non-coding  
CC region of the 130320 bp sclerostin gene region (SOST) indicates an  
CC increased risk of altered BMD. The composition and methods are useful in  
CC determining a risk for having, or presence of, altered bone  
CC mineral density, such as osteoporosis, osteopenia, bone dysplasia, bone  
CC fracture or other conditions characterized by decreased or increased bone  
CC density. These may also be used in identifying agents that may be used  
CC for treating the above diseases, disorders or conditions associated with  
CC altered BMD. In addition, these may be used for pharmaceutical purposes,  
CC e.g. to stratify patient populations according to suitability of a  
CC particular therapeutic agent for use in the population. This sequence  
CC corresponds to the human sclerostin gene region.

XX SQ Sequence 130320 BP; 33204 A; 32954 C; 31896 G; 32253 T; 0 U; 13 Other;

Query Match 1.7%; Score 52; DB 10; Length 130320;  
Best Local Similarity 100.0%; Pred. No. 1.4e-13;  
Matches 52; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Gy 2889 GAGGACGGTGCATCACTGAGGCCAGAGTTCCAGACCTGACCTGACCAACT 2940  
Db 23819 GAGGACGGTGCATCACTGAGGCCAGAGTTCCAGACCTGACCTGACCAACT 23768

## RESULT 23

ADG86300  
ID ADG86300 standard; DNA; 220756 BP.

XX AC ADG86300;

XX DT 11-MAR-2004 (first entry)

XX DE Human SMRT partial genomic DNA sequence SEQ ID NO:14.

XX KM SMRT; silencing mediator for retinoid and thyroid hormone action;

XX KM SMRT inhibitor; cytostatic; antiinflammatory; antitachytic;

XX KM antirheumatic; antisense therapy; inflammatory disorder;

XX KM rheumatoid arthritis; hyperproliferative disorder; cancer; leukaemia;

XX KM breast cancer; human; gene; de.

XX OS Homo sapiens.

XX PN WO2003106645-A2.

XX PD 24-DEC-2003.

XX PF 17-JUN-2003; 2003WO-US018923.

XX PR 17-JUN-2002; 2002US-00174014.

XX PA (ISIS-) ISIS PHARM INC.

XX PI Bennett CF, Freier SM, Dobie KW;

XX DR WPI, 2004-082184/08.

XX DR GENBANK; NT\_009459.

XX PT Novel antisense compound targeted to nucleic acid encoding SMRT

XX PT (silencing mediator for retinoid and thyroid hormone action), useful for

XX PT treating animal having disease associated with SMRT such as cancer,

XX PT rheumatoid arthritis.

XX Example 15; SEQ ID NO 14; 260pp; English.  
XX The present invention describes a compound (I) 8-50 nucleobases in length  
XX targeted to a nucleic acid molecule encoding SMRT (silencing mediator for  
XX retinoid and thyroid hormone action), where (I) specifically hybridises  
XX with the nucleic acid molecule encoding SMRT and inhibits expression of  
XX SMRT. (I) specifically hybridises with at least 8-nucleobase portion of a  
XX preferred target region on nucleic acid molecule encoding SMRT. Also

CC described is a composition (II) comprising (i) and a carrier or diluent.  
CC (i) and (ii) have cytostatic, antiinflammatory, antitachytic and  
CC antirheumatic activities, and can be used in antisense therapy, and as  
CC SMRT expression inhibitors. (I) is useful for inhibiting the expression  
CC of SMRT in cells or tissues. (I) is also useful for treating an animal  
CC having a disease or condition associated with SMRT, e.g., inflammatory  
CC disorder such as rheumatoid arthritis; or a hyperproliferative disorder  
CC such as cancer chosen from leukaemia and breast cancer, by inhibiting the  
CC expression of SMRT. (i) is useful for diagnostics, therapeutics,  
CC prophylaxis and as research reagents and kits. The present sequence  
CC represents a partial genomic DNA sequence of human SMRT, which is used in  
CC an example from the present invention. N.B. The present sequence is  
CC designated as SEQ ID NO:12 in example 15 but corresponds to SEQ ID NO:14  
CC in the Sequence Listing.

XX SQ Sequence 220756 BP; 42894 A; 60607 C; 65347 G; 51195 T; 0 U; 713 Other;

Query Match 1.7%; Score 52; DB 12; Length 220756;  
Best Local Similarity 100.0%; Pred. No. 1.4e-13;  
Matches 52; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Gy 3071 CAAGATTGTGCACCTGCACTCCAGCCCTGGGCAACAGACAAAGACTGTCTC 3122  
Db 172979 CAAGATTGTGCACCTGCACTCCAGCCCTGGGCAACAGACAAAGACTGTCTC 173030

## RESULT 24

ACN44282  
ID ACN44282 standard; DNA; 233380 BP.

XX AC ACN44282;

XX DT 18-NOV-2004 (first entry)

XX DE Human genomic sequence hCG25303.

XX KM Cytostatic; carcinoma; lymphoma; cancer; human; gene; ss.

XX KM Homo sapiens.

XX PN WO2003073826-A2.

XX PD 12-SEP-2003.

XX PF 28-FEB-2003; 2003WO-US006235.

XX PR 01-MAR-2002; 2002US-00087192.

XX PA (SAGR-) SAGRES DISCOVERY.

XX PI Morris DW;

XX DR WPI, 2003-328604/31.

XX PT Recombinant nucleic acid useful for diagnosis and treatment of carcinoma

XX PT comprises a nucleotide sequence.

XX PS Claim 1; SEQ ID NO 652; Opp; English.

XX The present invention relates to novel DNA and protein sequences which

XX are associated with carcinomas. The sequences are useful for: (i) for

XX screening drug candidates; (ii) for screening of bioactive agent capable

XX of binding to Carcinoma Associated Protein (CAP); (iii) for screening of

XX a bioactive agent capable of modulating the activity of CAP; (iv) for

XX evaluating the effect of a candidate carcinoma drug; (v) for diagnosing

XX carcinoma; (vi) for inhibiting the activity of CAP; (vii) for treating  
XX carcinoma; (viii) for neutralizing the effect of CAP; (ix) as a biotrip;  
XX (x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for  
XX determining Carcinoma Associated (CA) gene copy number. In addition, the  
XX CA genes are useful as DNA vaccines and the CAP are useful as markers of  
XX carcinoma including lymphoma. The present sequence is one such CA coding  
XX sequence. Note: This patent is an equivalent to basic patent  
XX US2002182586A1, for which no sequence data was published



```
XX SQ Sequence 233380 BP; 44357 A; 63089 C; 67702 G; 51928 T; 0 U; 6304 Other;
Query Match 1.7%; Score 52; DB 11; Length 233380;
Best Local Similarity 100.0%; Pred. No. 1.4e-13;
Matches 52; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 3071 CAGAGTTTGCCAGTCGACCTCCAGCTGGGCAACAGAGCAAGACTGTGCTC 3122
Db 179881 CAGAGTTTGCCAGTCGACCTCCAGCTGGGCAACAGAGCAAGACTGTGCTC 179932

RESULT 25
AAF21833/c
ID AAF21833 standard; DNA; 832 BP.
XX
XX AAF21833;
XX
XX 27-MAR-2001 (first entry)
XX
XX Human breast and ovarian cancer associated antigen gene SHQ ID 220.
XX
XX Human; breast cancer; ovarian cancer; cytostatic; immunosuppressive;
XX nootropic; neuroprotective; antiviral; antiallergic; hepatotropic;
XX antidiabetic; antiinflammatory; antitumor; vulnary; anticonvulsant;
XX antibacterial; antifungal; antiparasitic; cardiant; immune disorder;
XX Addison's disease; allergy; autoimmune haemolytic anaemia;
XX autoimmune thyroiditis; diabetes mellitus; Crohn's disease;
XX multiple sclerosis; rheumatoid arthritis; ulcerative colitis;
XX cardiovascular disorder; wound healing; neurological disease; ds.
XX
XX Homo sapiens.
XX
XX WO200055173-A1.
XX
XX 21-SEP-2000.
XX
XX 08-MAR-2000; 2000WO-US005881.
XX
XX 12-MAR-1999; 99US-0124270P.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX Rosen CA, Ruben SM;
XX
XX WPI; 2000-611515/58.
XX
XX P-PSDB; AAB58930.
XX
XX
XX New human breast and ovarian cancer associated gene sequences and the
XX polypeptides encoded by these genes, useful in the prevention, treatment
XX and diagnosis of cancer, immune disorders, cardiovascular disorders and
XX neurological diseases.
XX
XX Claim 1; Page 646-647; 1299pp; English.
XX
XX Sequences AAF21614 - AAF22031 represent DNA sequences encoding human
XX proteins AAB5711 - AAB59128. The DNA and protein sequences are
XX associated with breast and ovarian cancer. Included in the invention are
XX sequences AAF22032 - AAF22040 and AAB59129 which are used in the
XX isolation and characterisation of the DNA and protein sequences of the
XX invention. The breast and ovarian cancer associated DNA, protein, agonist
XX or antagonist sequences exhibit cytostatic; immunosuppressive; nootropic;
XX neuroprotective; antiviral; antiallergic; hepatotropic; antidiabetic;
XX antiinflammatory; antitumor; vulnary; anticonvulsant; antibacterial;
XX antifungal; antiparasitic and cardiant activity. The polynucleotide and
XX protein sequences are used in the diagnosis of cancer, particularly
XX breast and ovarian cancer. The nucleic acid sequences, proteins, agonists
XX and agonists may also be used in the diagnosis, prevention and treatment
XX of immune disorders e.g. Addison's disease, allergies, autoimmune
XX haemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's
XX disease, multiple sclerosis, rheumatoid arthritis and ulcerative colitis;
XX cardiovascular disorders such as myocardial ischaemia; wound healing;
XX neurological diseases such as cerebral anoxia and epilepsy; and
```

```
CC infectious diseases
XX
XX SQ Sequence 832 BP; 224 A; 171 C; 178 G; 257 T; 0 U; 2 Other;
Query Match 1.6%; Score 51; DB 3; Length 832;
Best Local Similarity 100.0%; Pred. No. 5.1e-13;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 2890 AGGCGATGATGATCACCCTGAGGCGAGAGTTTGAGACCAAGCTTGGCCAACT 2940
Db 76 AGGCGATGATGATCACCCTGAGGCGAGAGTTTGAGACCAAGCTTGGCCAACT 26

RESULT 26
AAS93730
ID AAS93730 standard; cDNA; 2791 BP.
XX
XX AAS93730;
XX
XX 13-FEB-2002 (first entry)
XX
XX DNA encoding novel human diagnostic protein #29534.
XX
XX Human; chromosome mapping; gene mapping; gene therapy; forensic;
XX food supplement; medical imaging; diagnostic; genetic disorder; ss.
XX
XX Homo sapiens.
XX
XX WO200175067-A2.
XX
XX 11-OCT-2001.
XX
XX 30-MAR-2001; 2001WO-US008631.
XX
XX 31-MAR-2000; 2000US-00540217.
XX
XX 23-AUG-2000; 2000US-00649167.
XX
XX (HYSB-) HYSBQ INC.
XX
XX Drmanac RT, Liu C, Tang YT;
XX
XX WPI; 2001-639362/73.
XX
XX P-PSDB; ABG29543.
XX
XX
XX The invention relates to isolated polynucleotide (I) and polypeptide (II)
XX sequences. (I) is useful as hybridisation probes, polymerase chain
XX reaction (PCR) primers, oligomers, and for chromosome and gene mapping.
XX in recombinant production of (II). The polynucleotides are also used
XX in diagnostics as expressed sequence tags for identifying expressed
XX genes. (II) is useful in gene therapy techniques to restore normal
XX activity of (II) or to treat disease states involving (II). (II) is
XX useful for generating antibodies against it, detecting or quantitating a
XX polypeptide in tissue, as molecular weight markers and as a food
XX supplement. (II) and its binding partners are useful in medical imaging
XX of sites expressing (II). (I) and (II) are useful for treating disorders
XX involving aberrant protein expression or biological activity. The
XX polypeptide and polynucleotide sequences have applications in
XX diagnostics, forensics, gene mapping, identification of mutations
XX responsible for genetic disorders or other traits to assess biodiversity
XX and to produce other types of data and products dependent on DNA and
XX amino acid sequences. AAS64197-AAS94564 represent novel human diagnostic
XX coding sequences of the invention. Note: The sequence data for this
XX patent did not appear in the printed specification, but was obtained in
XX electronic format directly from WIPO at
XX ftp://ipo.int/pub/published_pct_sequences
```

SQ Sequence 2791 BP; 559 A; 763 C; 784 G; 685 T; 0 U; 0 Other;  
Query Match 1.6%; Score 51; DB 5; Length 2791;  
Best Local Similarity 100.0%; Pred. No. 4,9e-13;  
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 465 CCTAAGCGGAGCGCGGCTCTGCAAGCTTGTCCCGGAGTTGGCACC 515  
DB 1538 CCTAAGCGGAGCGCGGCTCTGCAAGCTTGTCCCGGAGTTGGCACC 1588  
RESULT 27  
AEA6112/c  
ID AEA6112 standard; DNA; 23139 BP.  
XX  
AC AEA6112;  
XX  
DT 25-AUG-2005 (first entry)  
XX  
DE Human SLC26A2 gene genomic sequence SEQ ID NO:22.  
XX  
KW DNA methylation; biomarker; cancer; gene; ds; SLC26A2.  
XX  
OS Homo sapiens.  
XX  
PN US2005130172-A1.  
XX  
PD 16-JUN-2005.  
XX  
PF 27-JAN-2004; 2004US-00765790.  
XX  
PR 16-DEC-2003; 2003US-00737082.  
XX  
PA (FARB ) BAYER CORP.  
XX  
PI Beard C, Burgess C, Gannon A, Harvey J, Lechner JF, Li Z,  
PT WPI; 2005-456591/46.  
DR GEMBANK; A1025519.  
XX  
PT Identifying nucleic acid sequences as biomarker for disease, by  
PT identifying nucleic acid sequences comprising methylated CpG site and  
PT down-regulated in diseased cells and comparing its expression level with  
PT demethylated nucleic acid.  
XX  
PS Claim 11; SEQ ID NO 22; 27pp; English.  
XX  
CC The invention relates to a method (M1) for identifying one or more  
CC nucleic acid sequences useful as a biomarker for a disease to be  
CC detected. (M1) involves identifying nucleic acid sequences comprising  
CC methylated CpG site in promoter-first exon region and that are down-  
CC regulated in diseased cells, comparing expression level of nucleic acid  
CC sequences with that of demethylated nucleic acid sequences and  
CC identifying nucleic acid sequences exhibiting increase in expression  
CC after demethylation. Also described: (1) detecting (M2) the presence or  
CC stage of a disease in a subject, which involves determining the degree of  
CC methylation of one or more CpG sites on nucleic acid sequences in a  
CC biological sample obtained from the subject, and determining the presence  
CC of, predisposition to, or stage of the disease in the subject based on  
CC the degree of methylation; (2) monitoring the onset, progression, or  
CC regression of a disease in a subject; (3) determining the efficacy of a  
CC test compound for inhibiting a disease in a subject; and (4) a kit (I)  
CC useful for diagnosis, prognosis, staging, monitoring, and therapeutic  
CC treatment of a disease. (M1) is useful for identifying one or more  
CC nucleic acid sequences useful as a biomarker for a disease to be  
CC detected, where the nucleic acid sequences are useful for detecting, the  
CC presence or stage of a disease such as cancer e.g. colorectal cancer in a  
CC subject. The present sequence represents a specifically claimed human  
CC genomic sequence for use in the method of the invention. Note - The  
CC sequence data for this patent is not represented in the printed  
CC specification but was obtained in electronic format from the USPTO web  
XX site.

SQ Sequence 23139 BP; 6124 A; 4783 C; 4952 G; 7280 T; 0 U; 0 Other;  
Query Match 1.6%; Score 51; DB 14; Length 23139;  
Best Local Similarity 100.0%; Pred. No. 4,5e-13;  
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 2890 AGGCAAGTGATCACTGAGGCCAGAGATTGAGACCAAGCTGACCAACT 2940  
DB 3783 AGGCAAGTGATCACTGAGGCCAGAGATTGAGACCAAGCTGACCAACT 3733  
RESULT 28  
AAK67239  
ID AAK67239 standard; DNA; 30393 BP.  
XX  
AC AAK67239;  
XX  
DT 06-NOV-2001 (first entry)  
XX  
DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:22051.  
XX  
KW Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;  
KW cytostatic; gene therapy; vaccine; metastasis; ds.  
XX  
OS Homo sapiens.  
XX  
PN WO200157182-A2.  
XX  
PD 09-AUG-2001.  
XX  
PF 17-JAN-2001; 2001WO-US001354.  
XX  
PR 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 11-JUL-2000; 2000US-0217496P.  
PR 14-JUL-2000; 2000US-0218296P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225216P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226686P.  
PR 22-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227709P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.



KW melanoma; DNA polymorphism; SNP detection; cytostatic; gene therapy; SNP;  
XX single nucleotide polymorphism; gene; ds; chromosome 17.  
OS Homo sapiens.  
FH Key Location/Qualifiers  
FT 224      /tag= a  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 1874      /tag= b  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 2215      /tag= c  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 7585      /tag= d  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 8025      /tag= e  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 8687      /tag= f  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 12603      /tag= g  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 13885      /tag= h  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 14838      /tag= i  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 15269      /tag= j  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 16727      /tag= k  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 18388      /tag= l  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 18792      /tag= m  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 19195      /tag= n  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 19925      /tag= o  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 19949      /tag= p  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 20900      /tag= q  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 21847      /tag= r  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 22454      /tag= s  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 24193      /tag= t  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 26825      /tag= u  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 28667      /tag= v  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 32261      /tag= w  
FT variation      /standard\_name= "Single nucleotide polymorphism"

FT /tag= w  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 32268      /tag= x  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 32873      /tag= y  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 35165      /tag= z  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 35449      /tag= aa  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 36833      /tag= ab  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 36952      /tag= ac  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 37964      /tag= ad  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 39654      /tag= ae  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 39707      /tag= af  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 40072      /tag= ag  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 41164      /tag= ah  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 41767      /tag= ai  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 42724      /tag= aj  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 43139      /tag= ak  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 47241      /tag= al  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 49720      /tag= am  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 50036      /tag= an  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 50836      /tag= ao  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 51853      /tag= ap  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 51946      /tag= aq  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 57864      /tag= ar  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 59414      /tag= as  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 60074      /tag= at  
FT variation      /standard\_name= "Single nucleotide polymorphism"  
FT 65721      /tag= au  
FT variation      /standard\_name= "Single nucleotide polymorphism"

FT /standard\_name= "Single nucleotide polymorphism"  
FT 67995  
FT /\*tag= av  
FT /standard\_name= "Single nucleotide polymorphism"  
XX  
XX WO2005017176-A2.  
XX  
XX 24-FEB-2005.  
XX  
XX 05-MAY-2004; 2004WO-US014238.  
XX  
XX 23-JUL-2003; 2003US-0489703P.  
XX 06-NOV-2003; 2003US-00703789.  
XX 06-NOV-2003; 2003US-00703817.  
XX 06-NOV-2003; 2003US-00704513.  
XX  
XX (SEQU-) SEQUENOM INC.  
XX  
XX Roth RB, Nelson MR, Kammerer SM, Braun A, Hoyal-Wrightson CR,  
XX  
XX WPI: 2005-182387/19.  
XX P-PsDB; ADX80739.  
XX  
XX Identifying a subject at risk of melanoma by detecting presence or  
XX absence of a polymorphic variation associated with melanoma, where the  
XX presence of polymorphic variations is indicative of the subject being at  
XX risk of melanoma.  
XX  
XX Claim 16; SEQ ID NO 3; 418bp; English.  
XX  
XX The invention relates to a novel method for identifying a subject at risk  
XX of melanoma. The method comprises detecting the presence or absence of a  
XX polymorphic variation associated with melanoma, where the presence of the  
XX one or more polymorphic variations is indicative of the subject being at  
XX risk of melanoma. The invention further comprises: a method for  
XX identifying a polymorphic variation associated with melanoma proximal to  
XX an incident polymorphic variation associated with melanoma; an isolated  
XX nucleic acid which comprises a portion of or all of a nucleotide sequence  
XX comprising fully defined 68400-213300 base pairs sequences (SEQ ID NO. 3,  
XX 4, 5, 6, and/or 7) given in the specification, and comprises one or more  
XX polymorphic variations; an oligonucleotide comprising a nucleotide  
XX sequence complementary to a portion of the nucleotide sequence above,  
XX where the 3' end of the oligonucleotide is adjacent to a polymorphic  
XX variation; a microarray comprising the isolated nucleic acid linked to a  
XX solid support; an isolated polypeptide encoded by the isolated nucleic  
XX acid sequence; genotyping a nucleic acid; a method for identifying a

Query Match 1.6%; Score 51; DB 14; Length 68200;  
Best Local Similarity 100.0%; Pred. No. 4.3e-13;  
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2890 AGGCAAGTGGATCACCTGAGGCCAGAGTTCAGACCAAGCTGGCCAACT 2940  
DB 63277 AGGCAAGTGGATCACCTGAGGCCAGAGTTCAGACCAAGCTGGCCAACT 63227

RESULT 30  
ACN44754/C  
ID ACN44754 standard; DNA; 215221 BP.  
XX  
XX ACN44754;  
XX  
XX 18-NOV-2004 (first entry)  
XX  
XX Human genomic sequence hCG37990.  
XX  
XX Cystostatic; carcinoma; lymphoma; cancer; human; gene; ss.  
XX  
XX Homo sapiens.  
XX  
XX WO2003073826-A2.  
XX  
XX 12-SEP-2003.

XX  
XX 28-FEB-2003; 2003WO-US006235.  
XX  
XX 01-MAR-2002; 2002US-00087192.  
XX  
XX (SAGR-) SAGRES DISCOVERY.  
XX  
XX Morris DW;  
XX  
XX WPI: 2003-328604/31.  
XX  
XX Recombinant nucleic acid useful for diagnosis and treatment of carcinoma  
XX comprises a nucleotide sequence.  
XX  
XX Claim 1; SEQ ID NO 1360; opp; English.  
XX  
XX The present invention relates to novel DNA and protein sequences which  
XX are associated with carcinomas. The sequences are useful for: (i) for  
XX screening drug candidates; (ii) for screening of bioactive agent capable  
XX of binding to Carcinoma Associated Protein (CAP); (iii) for screening of  
XX a bioactive agent capable of modulating the activity of CAP; (iv) for  
XX evaluating the effect of a candidate carcinoma drug; (v) for diagnosing  
XX carcinoma; (vi) for inhibiting the activity of CAP; (vii) for treating  
XX carcinoma; (viii) for neutralizing the effect of CAP; (ix) as a biochip;  
XX (x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for  
XX determining Carcinoma Associated (CA) gene copy number. In addition, the  
XX CA genes are useful as DNA vaccines and the CAP are useful as markers of  
XX carcinoma including lymphoma. The present sequence is one such CA coding  
XX sequence. Note: This patent is an equivalent to basic patent  
XX US2002182586A1, for which no sequence data was published

SEQ Sequence 215221 BP; 63216 A; 39385 C; 42715 G; 69905 T; 0 U; 0 Other;

Query Match 1.6%; Score 51; DB 11; Length 215221;  
Best Local Similarity 100.0%; Pred. No. 4.2e-13;  
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3071 CAAAGTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3121  
DB 50858 CAAAGTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 50808

RESULT 31  
AAC24464/C  
ID AAC24464 standard; cDNA; 255 BP.  
XX  
XX AAC24464;  
XX  
XX 06-OCT-2000 (first entry)  
XX  
XX Human secreted protein 5' EST, SEQ ID NO: 28539.  
XX  
XX Human; 5' EST, expressed sequence tag; secreted protein; cDNA isolation;  
XX gene therapy; chromosome mapping; ss.  
XX  
XX Homo sapiens.  
XX  
XX EP1033401-A2.  
XX  
XX 06-SEP-2000.  
XX  
XX 21-FEB-2000; 2000EP-00200610.  
XX  
XX 26-FEB-1999; 99US-0122487P.  
XX  
XX (GEST ) GENSET.  
XX  
XX Dumas Milne Edwards J, Duclert A, Giordano J;  
XX  
XX WPI: 2000-500381/45.  
XX  
XX New nucleic acid that is a 5' expressed sequence tag (5' EST) for  
XX obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for

PT diagnostic, forensic, gene therapy and chromosome mapping procedures.  
 XX Claim 1; SEQ ID NO 28539; 71bp + Sequence Listing; English.  
 XX The present sequence is one of a large number of 5' ESTs derived from  
 CC mRNAs encoding secreted proteins. No ORF has yet been conclusively  
 CC identified within the present sequence. The 5' ESTs were prepared from  
 CC total human RNAs or polyA+ RNAs derived from 30 different tissues. EST  
 CC sequences usually correspond mainly to the 3' untranslated region (UTR)  
 CC of the mRNA because they are often obtained from oligo-dT primed cDNA  
 CC libraries. Such ESTs are not well suited for isolating cDNA sequences  
 CC derived from the 5' ends of mRNAs and even in those cases where longer  
 CC cDNA sequences have been obtained, the full 5' UTR is rarely included. 5'  
 CC ESTs are derived from mRNAs with intact 5' ends and can therefore be used  
 CC to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used in  
 CC diagnostic, forensic, gene therapy and chromosome mapping procedures.  
 CC They are used to obtain upstream regulatory sequences and to design  
 CC expression and secretion vectors  
 XX  
 SQ Sequence 255 BP; 47 A; 55 C; 53 G; 100 T; 0 U; 0 Other;  
 Query Match 1.6%; Score 50; DB 3; Length 255;  
 Best Local Similarity 100.0%; Pred. No. 1.6e-12;  
 Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 3073 AGATTGCGCAGCTGCACTCCAGCTGGGACAGAGAGAGACTGCTC 3122  
 Db 226 AGATTGCGCAGCTGCACTCCAGCTGGGACAGAGAGAGACTGCTC 177  
 RESULT 32  
 ADN41748  
 ID ADN41748 standard; DNA; 288 BP.  
 XX  
 AC ADN41748;  
 XX  
 DT 17-JUN-2004 (first entry)  
 XX  
 XX Novel human secreted protein polynucleotide seqid 870.  
 KM immunomodulator; immunosuppressive; antiinflammatory; dermatological;  
 KM antiallergic; antirheumatic; neuroprotective; antianaemic; muscular;  
 KM antiallergic; antiaesthetic; gastrointestinal; anticoagulant;  
 KM thrombolytic; antiatherosclerotic; cardiac; cytotoxic; nephrotoxic;  
 KM cardiovascular; respiratory; gene therapy; secreted protein;  
 KM chromosome identification; hybrid mapping; gene expression control;  
 KM immune system disorder; immunodeficiency; Chediak-Higashi syndrome;  
 KM autoimmune disease; systemic lupus erythematosus; rheumatoid arthritis;  
 KM multiple sclerosis; haemolytic anaemia; myasthenia gravis;  
 KM allergic reaction; asthma; inflammatory condition;  
 KM inflammatory bowel disease; B cell stimulator; T cell activator;  
 KM blood-related disorder; eosinophilia; thrombosis; thromboembolism;  
 KM atherosclerosis; myocardial infarction; angina; anaemia;  
 KM hyperproliferative disorder; cancer; renal disorder;  
 KM chronic kidney failure; renal tubular acidosis; kidney stone;  
 KM cardiovascular disorder; respiratory disorder; human; ds.  
 XX  
 OS Homo sapiens.  
 XX  
 PN US204044191-A1.  
 XX  
 PD 04-MAR-2004.  
 XX  
 PF 10-OCT-2001; 2001US-00973278.  
 XX  
 XX 08-JUL-1997; 97US-0051916P.  
 PR 08-JUL-1997; 97US-0051918P.  
 PR 08-JUL-1997; 97US-0051919P.  
 PR 08-JUL-1997; 97US-0051920P.  
 PR 08-JUL-1997; 97US-0051925P.  
 PR 08-JUL-1997; 97US-0051926P.  
 PR 08-JUL-1997; 97US-0051928P.  
 PR 08-JUL-1997; 97US-0051928P.  
 PR 08-JUL-1997; 97US-0051929P.

PR 08-JUL-1997; 97US-0051930P.  
 PR 08-JUL-1997; 97US-0051931P.  
 PR 08-JUL-1997; 97US-0051932P.  
 PR 08-JUL-1997; 97US-0052732P.  
 PR 08-JUL-1997; 97US-0052733P.  
 PR 08-JUL-1997; 97US-0052793P.  
 PR 08-JUL-1997; 97US-0052795P.  
 PR 08-JUL-1997; 97US-0052803P.  
 PR 18-AUG-1997; 97US-0055684P.  
 PR 18-AUG-1997; 97US-0055722P.  
 PR 18-AUG-1997; 97US-0055723P.  
 PR 18-AUG-1997; 97US-0055947P.  
 PR 18-AUG-1997; 97US-0055948P.  
 PR 18-AUG-1997; 97US-0055949P.  
 PR 18-AUG-1997; 97US-0055950P.  
 PR 18-AUG-1997; 97US-0055953P.  
 PR 18-AUG-1997; 97US-0055954P.  
 PR 18-AUG-1997; 97US-0055964P.  
 PR 18-AUG-1997; 97US-0055984P.  
 PR 18-AUG-1997; 97US-0056360P.  
 PR 12-SEP-1997; 97US-0058660P.  
 PR 12-SEP-1997; 97US-0058661P.  
 PR 12-SEP-1997; 97US-0058664P.  
 PR 12-SEP-1997; 97US-0058785P.  
 PR 07-JUL-1998; 98WO-US013684.  
 PR 08-JAN-1999; 99US-00227357.  
 PR 13-OCT-2000; 2000US-0239899P.  
 XX  
 PA (FISC/) FISCHER C L.  
 PA (ROSE/) ROSEN C A.  
 PA (SOPP/) SOPPET D R.  
 PA (RUBE/) RUBEN S M.  
 PA (KYAW/) KYAW H.  
 PA (LIYY/) LI Y.  
 PA (ZENG/) ZENG Z.  
 PA (LAFL/) LAFLAUR D W.  
 PA (MOOR/) MOORE P A.  
 PA (SHIY/) SHI Y.  
 PA (OLSE/) OLSEN H.  
 PA (BENE/) EBNER R.  
 PA (BIRS/) BIRSE C E.  
 XX  
 XX Fischer CL, Rosen CA, Soppet DR, Ruben SM, Kyaw H, Li Y, Zeng Z,  
 P1 Laflaur DW, Moore PA, Shi Y, Olsen H, Ebner R, Birse CE;  
 XX WPI; 2004-225733/21.  
 XX  
 XX New isolated nucleic acid encoding human proteins, useful for treating,  
 PT preventing or diagnosing e.g. rheumatoid arthritis, multiple sclerosis,  
 PT anaemia, inflammatory bowel disease, atherosclerosis, cancers, chronic  
 XX kidney failure.  
 XX  
 PS Disclosure; SEQ ID NO 870; 372pp; English.  
 XX  
 XX The invention describes novel human secreted proteins and the nucleotides  
 CC encoding them. The polynucleotides are useful in chromosome  
 CC identification, for radiation hybrid mapping, in controlling gene  
 CC expression, in gene therapy or as molecular weight markers. The  
 CC polynucleotides and polypeptides are useful for diagnosing, treating or  
 CC preventing diseases of the immune system, immunodeficiencies, e.g.  
 CC Chediak-Higashi syndrome, autoimmune diseases, e.g. systemic lupus  
 CC erythematosus, rheumatoid arthritis, multiple sclerosis, haemolytic  
 CC anaemia or myasthenia gravis, allergic reactions, e.g. asthma,  
 CC inflammatory conditions, e.g. inflammatory bowel disease. They can also  
 CC be used as a stimulator of B cell responsiveness to pathogens or as an  
 CC activator of T cells. The polynucleotides and polypeptides are also  
 CC useful for treating or preventing blood-related disorders, e.g.  
 CC eosinophilia, thrombosis, thromboembolism, atherosclerosis, myocardial  
 CC infarction, unstable angina or anaemia. They can also be used for  
 CC treating, preventing or diagnosing hyperproliferative disorders  
 CC (cancers), renal disorders (chronic kidney failure, renal tubular  
 CC acidosis or kidney stones), cardiovascular disorders or respiratory  
 CC disorders. This sequence represents a novel human secreted protein

CC polynucleotide fragment. Note: This sequence is available in electronic  
CC format from the US patent office at  
CC ftp.segdata.uspto.gov/sequence.html?docID=20040044191.  
XX  
SQ Sequence 288 BP; 89 A; 75 C; 80 G; 44 T; 0 U; 0 Other;

Query Match 1.6%; Score 50; DB 12; Length 288;  
Best Local Similarity 100.0%; Pred. No. 1.5e-12;  
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3073 AANATGTGCACCTGCACCTCAGCTGGGACACAGACAGACACTCTGTCTC 3122  
Db 221 AAGATTGTCACCTGCACCTCAGCTGGGACACAGACAGACACTCTGTCTC 270

RESULT 33  
AAK84092  
ID AAK84092 standard; DNA; 301 BP.  
XX  
AC AAK84092;  
XX  
DT 07-NOV-2001 (first entry)  
XX  
DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:38904.  
XX  
KW Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;  
KW cytostatic; gene therapy; vaccine; metastasis; ds.  
XX  
OS Homo sapiens.  
XX  
PN WO200157182-A2.  
PD 09-AUG-2001.  
XX  
XX 17-JAN-2001; 2001WO-US001354.  
XX  
PR 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-021680P.  
PR 07-JUL-2000; 2000US-021680P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 11-JUL-2000; 2000US-0217496P.  
PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225266P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-022547P.  
PR 14-AUG-2000; 2000US-022547P.  
PR 14-AUG-2000; 2000US-022557P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226868P.  
PR 22-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-022709P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.

PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230437P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232080P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 12-SEP-2000; 2000US-0231968P.  
PR 14-SEP-2000; 2000US-0232397P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234224P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 26-SEP-2000; 2000US-0235484P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235835P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236367P.  
PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0236802P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 02-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239935P.  
PR 13-OCT-2000; 2000US-0239937P.  
PR 20-OCT-2000; 2000US-0240960P.  
PR 20-OCT-2000; 2000US-0241221P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241826P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0246474P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.





DE Human phenotype associated polymnucleotide baysNP59113 SEQ ID NO:258.  
 XX ds; gene; phenotype associated; PA; cardiact; statin; cardiovascular;  
 KW atherosclerosis; ischaemia; reperfusion; hypertension; restenosis;  
 KW arterial inflammation; myocardial infarction; stroke;  
 KW single nucleotide polymorphism; SNP.  
 XX  
 OS Homo sapiens.  
 XX  
 FH Key Location/Qualifiers  
 FT variation 501  
 FT /\*tag= a  
 FT /standard\_name= "Single nucleotide polymorphism"  
 XX  
 PN WO2004067774-A2.  
 XX  
 PD 12-AUG-2004.  
 XX  
 PF 23-JAN-2004; 2004WO-EP000539.  
 XX  
 PR 31-JAN-2003; 2003EP-00002212.  
 XX 03-FEB-2003; 2003EP-00002153.  
 XX  
 PA (FARB ) BAYER HEALTHCARE AG.  
 XX  
 PI Stropp U, Schwere S, Kallabis H;  
 XX  
 DR WPI; 2004-581012/56.  
 XX  
 PT New polymorphisms of a phenotype associated (PA) gene, useful for  
 PT assessing the response to lipid lowering drug therapy and adverse drug  
 PT reactions of the medicaments, and for screening compounds for treating  
 PT cardiovascular diseases.  
 XX  
 PS Claim 1; SEQ ID NO 258; 349pp; English.  
 XX  
 CC The invention relates to a novel polymnucleotide encoded by a phenotype  
 CC associated (PA) gene. The polymnucleotide is selected from 292 sequences  
 CC comprising 301-1002 base pairs (AD080913-AD081204) given in the  
 CC specification, with allelic variation contained in a functional  
 CC surrounding like full length cDNA for PA gene polypeptide and with or  
 CC without the PA gene promoter sequence. A polymnucleotide of the invention  
 CC has radiant activity, and acts as a phenotype-associated gene modulator.  
 CC The reagent of the invention is useful for preparing a medicament tailored to  
 CC method of the invention is useful for preparing a medicament tailored to  
 CC suit a patient's individual response to statin therapy. The genetic  
 CC polymorphisms are useful for assessing the response to lipid lowering  
 CC drug therapy and adverse drug reactions of the medicaments, particularly  
 CC for assessing cardiovascular risks in humans e.g. atherosclerosis,  
 CC ischaemia/reperfusion, hypertension, restenosis, arterial inflammation,  
 CC myocardial infarction, and stroke. The genetic polymorphisms are also  
 CC useful for identifying compounds for treatments of cardiovascular disease  
 CC above or as prophylactic therapy for cardiovascular diseases. The genetic  
 CC variations are useful for predicting personal medication schemes omitting  
 CC adverse drug reactions and allowing an adjustment of the drug dose to  
 CC achieve maximum benefit for the patient. The nucleic acids are useful as  
 CC probes for the detection of genetic polymorphisms and as templates for  
 CC the recombinant production of normal variant peptides or polypeptides  
 CC encoded by the genes. The present sequence represents a polymnucleotide of  
 CC the invention.  
 XX  
 SQ Sequence 1001 BP; 363 A; 150 C; 269 G; 218 T; 0 U; 1 Other;  
 XX  
 Query Match 1.6%; Score 50; DB 13; Length 1001;  
 Best Local Similarity 100.0%; Pred. No. 1.5e-12;  
 Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 3073 AGATTGTGCACCTGCACTCCAGCTGGGCAACAGAGCAAGACTGTCTC 3122  
 DB 731 AGATTGTGCACCTGCACTCCAGCTGGGCAACAGAGCAAGACTGTCTC 780  
 RESULT 36

AB58182  
 ID AB58182 standard; cDNA; 2407 BP.  
 XX  
 AC AB58182;  
 XX  
 DT 26-FEB-2003 (first entry)  
 XX  
 DE cDNA encoding human zinc finger protein 10.01.  
 XX  
 KW Human; zinc finger protein 10.01; malignant tumour; haemopathy;  
 KW human immunodeficiency virus infection; HIV infection; inflammation;  
 KW immunological disease; gene; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 FH Key Location/Qualifiers  
 FT CDS 1279..1554  
 FT /\*tag= a  
 FT /product= "Zinc finger protein 10.01"  
 XX  
 PN CN1352110-A.  
 XX  
 PD 05-JUN-2002.  
 XX  
 PF 06-NOV-2000; 2000CN-00127241.  
 XX  
 PR 06-NOV-2000; 2000CN-00127241.  
 XX  
 PA (BODE-) BODE GENE DEV CO LTD SHANGHAI.  
 XX  
 PI Mao Y, Xie Y;  
 XX  
 DR WPI; 2002-692406/75.  
 XX P-PSDB; ABG72222.  
 DR  
 PT New human zinc finger protein 10.01 polypeptide for treating malignant  
 PT tumors, hemopathy, human immunodeficiency virus infection, immunological  
 PT diseases and various inflammations.  
 XX  
 PS Claim 6; Page 25-26 (disclosure); 33pp; Chinese.  
 XX  
 CC The present invention relates to the isolation of human zinc finger  
 CC protein 10.01, and the polymnucleotide sequence encoding it. Also  
 CC described is the process for preparing the protein by DNA recombination  
 CC and the application of the polypeptide and polymnucleotide in treating  
 CC various diseases such as malignant tumours, haemopathy, human  
 CC immunodeficiency virus (HIV) infection, immunological diseases, and  
 CC various inflammations. The present sequence encodes human zinc finger  
 CC protein 10.01  
 XX  
 SQ Sequence 2407 BP; 746 A; 458 C; 570 G; 633 T; 0 U; 0 Other;  
 XX  
 Query Match 1.6%; Score 50; DB 6; Length 2407;  
 Best Local Similarity 100.0%; Pred. No. 1.4e-12;  
 Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 3073 AGATTGTGCACCTGCACTCCAGCTGGGCAACAGAGCAAGACTGTCTC 3122  
 DB 225 AGATTGTGCACCTGCACTCCAGCTGGGCAACAGAGCAAGACTGTCTC 274  
 RESULT 37  
 AB82624  
 ID AB82624 standard; DNA; 8705 BP.  
 XX  
 AC AB82624;  
 XX  
 DT 25-JAN-2002 (first entry)  
 XX  
 DE Human HBM gene region b200e21-h\_contigl.  
 XX  
 KW Human; high bone mass; HBM gene; 2max1 gene; chromosome 11; 11q13.3;  
 KW sequence tagged site; STS; osteoporosis; osteopathic; gene therapy;  
 KW

KM antisense therapy; vaccine; bone disorder; Paget's disease; sclerostosis;  
KM osteomalacia; fibrous dysplasia; ds.  
XX Homo sapiens.  
OS  
XX WO200177327-A1.  
PN  
XX 18-OCT-2001.  
PD  
XX 21-JUN-2000; 2000WO-US016951.  
PF  
XX 05-APR-2000; 2000US-00543771.  
PR  
XX 05-APR-2000; 2000US-00544398.  
PR  
XX (GENO-) GENOME THERAPEUTICS CORP.  
PA  
XX Canull JP, Little RD, Recker RR, Johnson ML;  
PI  
XX WPI; 2001-657171/75.  
DR  
XX New high bone mass (HBM) and Zmax1 genes and proteins useful for  
PT modulating bone mass for the treatment of e.g. osteoporosis.  
PT  
XX Claim 51; Page 303-308; 443pp; English.  
PS  
XX The present invention describes the human Zmax1 gene and the high bone  
CC mass (HBM) gene, which are found on chromosome 11q13.3. The Zmax1 and HBM  
CC genes have osteopathic activities. The genes can be used in gene therapy,  
CC antisense therapy and in the production of vaccines. They can be used in  
CC the diagnosis and treatment of bone disorders including osteoporosis,  
CC Paget's disease, sclerostosis, osteomalacia and fibrous dysplasia.  
CC AB82038 to AB82700 and AAG68168 to AAG68193 represent sequences used in  
CC the exemplification of the present invention  
CC  
XX Sequence 8705 BP; 2107 A; 2317 C; 2399 G; 1882 T; 0 U; 0 Other;  
SQ  
Query Match 1.6%; Score 50; DB 5; Length 8705;  
Best Local Similarity 100.0%; Pred. No. 1.4e-12;  
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 3073 AGATTGGCCACTGCACCTCGGCAACAGAGCAAGACTCTCTC 3122  
Db 6492 AGATTGGCCACTGCACCTCGGCAACAGAGCAAGACTCTCTC 6541  
RESULT 38  
ACC45365  
ID ACC45365 standard; DNA; 8705 BP.  
XX  
XX ACC45365;  
AC  
XX 02-JUN-2003 (first entry)  
DT  
XX Human HBM gene fragment #6.  
DE  
XX Human; high bone mass; HBM; LRP5; LRP6; transgenic; bone mass modulation;  
KM gene therapy; bone density modulation; bone strength; trabecular number;  
KM bone size; bone tissue connectivity; bone disease; osteoporosis;  
KM osteomalacia; rickets; Paget's disease; neoplasm of the bone; gene; ds.  
XX  
XX Homo sapiens.  
OS  
XX WO200292764-A2.  
PN  
XX 21-NOV-2002.  
PD  
XX 13-MAY-2002; 2002WO-US014876.  
PF  
XX 11-MAY-2001; 2001US-0290071P.  
PR  
XX 17-MAY-2001; 2001US-0291311P.  
PR  
XX 01-FEB-2002; 2002US-0353058P.  
PR  
XX 04-MAR-2002; 2002US-0361293P.  
XX

PA (GENO-) GENOME THERAPEUTICS CORP.  
PA (AMHP) WYETH.  
XX  
XX Babi J P, Bex FJ, Yaworeky FJ, Bodine PV;  
PI  
XX WPI; 2003-129278/12.  
DR  
XX New transgenic animals (e.g. mice), useful as models for studying bone  
PT density modulation, developing drugs for treating or preventing bone  
PT diseases (e.g. osteoporosis), or diagnosing diseases characterized by  
PT reduced bone density.  
XX  
XX Example 2; Page 358-361; 603pp; English.  
PS  
XX The invention relates to novel transgenic animals expressing the high  
CC bone mass (HBM) gene, expressing the corresponding wild type HBM gene,  
CC comprising an alteration of the gene encoding LRP5 or LRP6, or expressing  
CC an LRP5 that is modulated by an altered gene control sequence introduced  
CC by homologous or non-homologous recombination. The transgenic animals are  
CC for the study of bone density modulation or bone mass modulation. The  
CC invention has osteopathic and cytostatic activity. The polynucleotides of  
CC the invention may have a use in gene therapy. The transgenic animals and  
CC nucleic acids are for the study of bone density modulation, where the  
CC bone mass is modulated relative to non-transgenic animals of the same  
CC species in more than one parameter selected from bone density, bone  
CC strength, trabecular number, bone size, or bone tissue connectivity. The  
CC transgenic animals, nucleic acids and methods are useful for identifying  
CC molecules involved in bone development, and for developing pharmaceutical  
CC compositions, which may be employed for treating or preventing bone  
CC diseases, e.g. osteoporosis, osteomalacia, rickets, Paget's disease, or  
CC neoplasms of the bone. The transgenic animals and nucleic acids are also  
CC useful in methods for diagnosing diseases involved in bone development,  
CC or characterised by reduced bone density or mass. The present sequence is  
CC used in the exemplification of the invention  
CC  
XX Sequence 8705 BP; 2107 A; 2317 C; 2399 G; 1882 T; 0 U; 0 Other;  
SQ  
Query Match 1.6%; Score 50; DB 8; Length 8705;  
Best Local Similarity 100.0%; Pred. No. 1.4e-12;  
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 3073 AGATTGGCCACTGCACCTCGGCAACAGAGCAAGACTCTCTC 3122  
Db 6492 AGATTGGCCACTGCACCTCGGCAACAGAGCAAGACTCTCTC 6541  
RESULT 39  
ADB98065  
ID ADB98065 standard; DNA; 8705 BP.  
XX  
XX ADB98065;  
AC  
XX 04-DEC-2003 (first entry)  
DT  
XX HBM-related clone contig b200e21-h contig1.  
DE  
XX Osteopathic; Gene therapy; High Bone Mass; HBM; LRP5; Zmax1; LRP6;  
KM bone mass modulation; osteoporosis; human; ds.  
XX  
XX Homo sapiens.  
OS  
XX WO200292000-A2.  
PN  
XX 21-NOV-2002.  
PD  
XX 13-MAY-2002; 2002WO-US014877.  
PF  
XX 11-MAY-2001; 2001US-0290071P.  
PR  
XX 17-MAY-2001; 2001US-0291311P.  
PR  
XX 01-FEB-2002; 2002US-0353058P.  
PR  
XX 04-MAR-2002; 2002US-0361293P.  
XX  
XX (GENO-) GENOME THERAPEUTICS CORP.  
PA

PA	(AMHP ) WYETH.
XX	
PI	Allen K, Anisowicz A, Graham JR, Morales A, Yaworsky PJ, Liu W;
XX	
DR	WPI; 2003-129214/12.
XX	
PT	New nucleic acid comprising a mutation in LRP5 or LRP6, useful for
PT	diagnosing a HBM-like phenotype in a subject and for preparing a
PT	composition for modulating bone mass and/or lipid levels in a subject
PT	suffering from e.g. osteoporosis.
XX	
PS	Example 3; SEQ ID NO 10; 629pp; English.
XX	
CC	The present invention relates to High Bone Mass (HBM), LRP5 (Zmax1) and
CC	LRP6 mutants, which results in a HBM-like phenotype when expressed in a
CC	cell. The HBM-like phenotype results in bone mass modulation and/or lipid
CC	level modulation. The invention is useful for diagnosing a HBM-like
CC	phenotype in a subject and for preparing a composition for modulating
CC	bone mass and/or lipid levels in a subject suffering from e.g.
CC	osteoporosis. The present sequence was used to illustrate the invention.
XX	
SQ	Sequence 8705 BP; 2107 A; 2317 C; 2399 G; 1882 T; 0 U; 0 Other;
QY	Query Match 1.6%; Score 50; DB 10; Length 8705;
	Best Local Similarity 100.0%; Pred. No. 1.4e-12;
DB	Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0
	3073 AGATTGTGCCACTGCATCTGCAGCCTGGGCGACAGCAAGACTGTGTCTC 3122
	6492 AGATTGTGCCACTGCATCTGCAGCCTGGGCGACAGCAAGACTGTGTCTC 6541
RESULT 40	
ID	ADE82434
XX	ADE82434 standard; DNA; 8705 BP.
XX	
AC	ADE82434;
XX	
DT	29-JAN-2004 (first entry)
XX	
DE	Human DNA sequence related to the invention #6.
XX	
KM	LRP5; LRP6; HBM; DKK activity; Osteopathic; Antiinflammatory;
KW	Antiarthritic; bone mass disorders; osteoporosis; hypercalcaemia;
KW	hyperostosis; osteogenesis; Wnt signaling; ds.
XX	
OS	Homo sapiens.
XX	
PN	WO200292015-A2.
XX	
PD	21-NOV-2002.
XX	
PE	17-MAY-2002; 2002WO-US015982.
XX	
PR	17-MAY-2001; 2001US-0291311P.
PR	01-FEB-2002; 2002US-0353058P.
PR	04-MAR-2002; 2002US-0361253P.
XX	
PA	(GENO-) GENOME THERAPEUTICS CORP.
PA	(AMHP ) WYETH.
XX	
PI	Allen K, Anisowicz A, Bhat BM, Damagmez V, Robinson JA;
PI	Yaworsky PJ;
XX	
DR	WPI; 2003-129219/12.
XX	
PT	Regulating LRP5, LRP6 or HBM activity in a subject, useful for modulating
PT	lipid levels and/or bone mass, and for in treating bone mass disorders,
PT	e.g. osteoporosis, comprises administering a composition which modulates
PT	a DKK activity.
XX	
SS	Disclosure; SEQ ID NO 10; 173pp; English.
XX	

CC	The present invention relates to regulating LRP5, LRP6 or HBM activity in
CC	a subject comprising administering a composition which modulates a Dkk
CC	activity. The method is useful for modulating lipid levels and/or bone
CC	mass, and is useful in treating or diagnosing abnormal lipid levels and
CC	bone mass disorders, such as osteoporosis, bone fracture, age-related
CC	loss of bone, a chondrocytopathy, drug-induced bone disorder, high bone
CC	turnover, hypercalcemia, hyperostosis, osteogenesis, imperfecta,
CC	osteomalacia, osteomyelitis, Paget's disease, osteoarthritis, and
CC	rickets. Modulators of Dkk activity are useful for as reagents in
CC	studying bone mass and lipid level modulation, in modulating Wnt
CC	signaling, or treating Dkk-mediated disorders. The present sequence
CC	represents a human DNA sequence related to the invention.
XX	
SQ	Sequence 8705 BP; 2107 A; 2317 C; 2399 G; 1882 T; 0 U; 0 Other;
Query Match	1.6%; Score 50; DB 10; Length 8705;
Best Local Similarity	100.0%; Fred.No. 1.4e-12;
Matches	50; Conservative 0; Mismatches 0; Indels 0; Gaps 0
Qy	3073 AGATTGCGACCTGCACTCCAGCTCGGGCAACAGAGCAAGACTGTC 3122
Db	6492 AGATTGCGACCTGCACTCCAGCTCGGGCAACAGAGCAAGACTGTC 6541
RESULT 41	
ADRI6928	
ID	ADRI6928 standard; DNA; 8705 BP.
XX	
XX	ADRI6928;
AC	
XX	
DT	04-NOV-2004 (first entry)
XX	
DB	BAC clone containing segments of the human Zmx1 gene #6.
XX	
XX	Human; high bone mass; Zmx1; ds; BAC; HBM; osteoporosis;
XX	chromosome 11q13.3; osteopathic; LDL receptor; bone development;
XX	metabolic bone disease; bacterial artificial chromosome.
XX	
XX	Homo sapiens.
OS	
XX	
XX	US6780609-B1.
FN	
XX	
PD	24-AUG-2004.
XX	
PE	05-APR-2000; 2000US-00543771.
PR	
PR	13-JAN-1998; 98US-0071449P.
PR	23-OCT-1998; 98US-0105511P.
PR	13-JAN-1999; 99US-00229319.
XX	
PA	(GENO-) GENOME THERAPEUTICS CORP.
XX	
PI	Carulli JP, Little RD, Recker RR, Johnson ML;
XX	
DR	WPI; 2004-623529/60.
XX	
XX	New high bone mass gene of chromosome 1.1q13.3, encoding protein useful
PT	for treating, diagnosing, preventing, or screening for normal and
PT	abnormal conditions of bone, including metabolic bone diseases, e.g.
PT	osteoporosis.
XX	
PS	
XX	Example 2; SEQ ID NO 10; 264bp; English.
XX	
XX	The invention relates to an isolated amino acid protein sequence selected
CC	from an amino acid sequence appearing as ADRI6922 or an amino acid
CC	sequence comprising or consisting of the extracellular domain of
CC	ADRI6922(amino acids 23-1385). ADRI6922 is encoded by the HBM (high bone
CC	mass) allele of the human Zmx1 gene and has sequence similarity to LDL
CC	receptors. Also disclosed are nucleic acids, proteins, cloning vectors,
CC	expression vectors, transformed hosts, methods of developing
CC	pharmaceutical compositions, methods of identifying molecules involved in
CC	bone development, and methods of diagnosing and treating diseases
CC	involved in bone development. Specifically disclosed is the Zmx1 gene

CC and the high bone mass (HBM) allele on chromosome 11q13.3 encoding  
CC ADR16922. The protein is useful for treating, diagnosing, preventing, or  
CC screening for normal and abnormal conditions of bone, including metabolic  
CC bone diseases, e.g. osteoporosis. The present sequence is a BAC  
CC (bacterial artificial chromosome) containing part of the Zmax1 gene.  
XX  
SQ Sequence 8705 BP; 2107 A; 2317 C; 2399 G; 1882 T; 0 U; 0 Other;  
Query Match 1.6%; Score 50; DB 13; Length 8705;  
Best Local Similarity 100.0%; Pred. No. 1,4e-12; Indels 0; Gaps 0;  
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 3073 AGATTGGCCACTGCACTCCAGCTGGGCAACAGAGCAAGACTGTCTC 3122  
Db 6492 AGATTGGCCACTGCACTCCAGCTGGGCAACAGAGCAAGACTGTCTC 6541  
RESULT 42  
ADRA47579 standard; DNA; 8705 BP.  
XX  
AC ADR47579;  
XX  
DT 02-DEC-2004 (first entry)  
XX  
DE BAC clone containing segments of the human Zmax1 gene #6.  
XX  
KW Human; ds; bacterial artificial chromosome; high bone mass; Zmax1; HBM;  
KM bone modulation; bone development disorder; osteoporosis;  
XX chromosome 11q13.3; gene therapy; BAC.  
OS Homo sapiens.  
XX  
PN US2004176582-A1.  
XX  
PD 09-SEP-2004.  
XX  
PF 10-DEC-2003; 2003US-00731739.  
XX  
PR 13-JAN-1998; 98US-0071449P.  
PR 23-OCT-1998; 98US-0105511P.  
PR 13-JAN-1999; 99US-00229319.  
PR 05-APR-2000; 2000US-00544398.  
XX  
XX (GENO-) GENOME THERAPEUTICS CORP.  
PA (UYCR-) UNIV CREIGHTON.  
XX  
XX Carulli JP, Little RD, Recker RR, Johnson ML;  
XX  
XX WPI; 2004-661408/64.  
XX  
XX  
PT New nucleic acid sequence encoding high bone mass, useful in diagnosing,  
PT treating and/or preventing osteoporosis.  
XX  
PS Claim 51; SEQ ID NO 10; 303bp; English.  
XX  
XX The invention relates to an isolated nucleic acid sequence encoding a  
CC high bone mass protein (HBM). The gene exists in two alleles, Zmax1, the  
CC notional wild-type (the cDNA for which appears as ADR47570 encoding  
CC ADR47572) and the HBM allele (the cDNA for which appears as ADR47571  
CC encoding ADR47573). The two alleles differ by a single nucleotide  
CC polymorphism (G to T at position 582 of ADR47570) causing a Gly to Val  
CC change at position 171 of the protein. Also included are a replicative  
CC cloning vector comprising HBM/Zmax1 (and a replicon operative in an  
CC isolated host cell), an expression vector comprising HBM/Zmax1 operably  
CC linked to a transcription regulatory region, an isolated host cell  
CC transformed with the vector(s), a method for testing a substance as a  
CC therapeutic agent for bone modulation in a host, a method of identifying  
CC a molecule involved in bone modulation, a method for identifying a  
CC (candidate) protein involved in bone modulation, a method of testing for  
CC HBM activity, a method of developing a pharmaceutical for the treatment  
CC of bone development disorders, a method for treating a bone development  
CC disorder in an animal, a method of altering bone development in a host, a

CC method for diagnostic screening for a genetic predisposition to a bone  
CC development disorder, a diagnostic assay for bone development disorders,  
CC a method of expressing the HBM protein in bone tissue, a bacterial  
CC artificial chromosome comprising HBM/Zmax1 sequence (appearing as  
CC ADR47574-ADR47580), a method for amplifying a nucleotide polymorphism in  
CC the Zmax1 or HBM gene, a method for identifying a regulatory element of a  
CC HBM gene and an isolated nucleic acid segment of at least 15 contiguous  
CC nucleotides including a polymorphic site from HBM/Zmax1. The nucleic acid  
CC molecule and the encoded polypeptide, composition, and methods are useful  
CC in diagnosing, treating and preventing a bone development disorder, i.e.  
CC osteoporosis. The gene for HBM/Zmax1 is located on chromosome 11q13.3.  
CC The present sequence is an HBM DNA from a bacterial artificial  
CC chromosome.  
XX  
SQ Sequence 8705 BP; 2107 A; 2317 C; 2399 G; 1882 T; 0 U; 0 Other;  
Query Match 1.6%; Score 50; DB 13; Length 8705;  
Best Local Similarity 100.0%; Pred. No. 1,4e-12; Indels 0; Gaps 0;  
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 3073 AGATTGGCCACTGCACTCCAGCTGGGCAACAGAGCAAGACTGTCTC 3122  
Db 6492 AGATTGGCCACTGCACTCCAGCTGGGCAACAGAGCAAGACTGTCTC 6541  
RESULT 43  
AEB69308 standard; DNA; 8705 BP.  
XX  
AC AEB69308;  
XX  
DT 22-SEP-2005 (first entry)  
XX  
DE Human High Bone Mass gene related contig b200e21\_h\_contig1, SEQ ID 10.  
XX  
KW Osteopathic; high bone mass; Zmax1; bone disease; osteoporosis;  
KM osteomalacia; bone injury; Paget's disease; ds.  
XX  
OS Homo sapiens.  
XX  
PN US2005142617-A1.  
XX  
PD 30-JUN-2005.  
XX  
PF 29-APR-2004; 2004US-00834377.  
XX  
PR 13-JAN-1998; 98US-0071449P.  
PR 23-OCT-1998; 98US-0105511P.  
PR 13-JAN-1999; 99US-00229319.  
PR 05-APR-2000; 2000US-00543771.  
XX  
XX (GENO-) GENOME THERAPEUTICS CORP.  
PA (UYCR-) UNIV CREIGHTON SCHOOL MEDICINE.  
XX  
XX Carulli JP, Little RD, Recker RR, Johnson ML;  
XX  
XX WPI; 2005-496364/50.  
XX  
XX Identifying candidate molecule involved in bone modulation, comprises  
PT identifying molecule that binds to Zmax1, high bone mass (HBM) protein,  
PT or both Zmax1 and HBM protein.  
XX  
XX Example 2; SEQ ID NO 10; 308bp; English.  
XX  
XX The present invention relates to a method (M1) for identifying a  
CC candidate molecule involved in bone modulation. The method comprises  
CC identifying a molecule that binds to High Bone Mass protein (HBM) and/or  
CC Zmax1 protein. The HBM gene exists in two alleles, Zmax1, the notional  
CC wild-type (the cDNA for which appears as AEB69299 encoding AEB69301 and  
CC AEB69939 encoding AEB69940) and the HBM allele (the cDNA for which  
CC appears as AEB69300 encoding AEB69302). The two alleles differ by a  
CC single nucleotide polymorphism (T to G at position 582 of AEB69299)  
CC causing a Gly to Val change at position 171 of the protein. The HBM

CC protein has the property of causing elevated bone mass, while the Zmax1  
CC protein does not. The gene for HBM/Zmax1 is located on chromosome  
CC 11q13.3. Also claimed is a method of pharmaceutical development for  
CC treating of bone development disorders, such as osteoporosis,  
CC osteomalacia, bone fractures, Paget's disease, etc., which comprises  
CC identifying a molecule that binds to the Zmax1 protein, or to HBM, or  
CC both. The present sequence was used to illustrate the invention.

XX  
SQ Sequence 8705 BP; 2107 A; 2317 C; 2399 G; 1882 T; 0 U; 0 Other;

Query Match 1.6%; Score 50; DB 14; Length 8705;  
Best Local Similarity 100.0%; Pred. No. 1.4e-12;

Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 3073 AGATTGTGCACCTGCAGCTGGGCAACAGACGACTGTCTTC 3122  
Db 6492 NCATTGTGCACCTGCAGCTGGGCAACAGACGACTGTCTTC 6541

RESULT 44

ID AAK6119 standard; DNA; 10396 BP.

AC AAK6119;

DT 07-NOV-2001 (first entry)

DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:40931.

XX Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;

KM cytosstatic; gene therapy; vaccine; metastasis; ds.

XX Homo sapiens.

FN WO200157182-A2.

PD 09-AUG-2001.

PF 17-JAN-2001; 2001WO-US001354.

XX 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 11-JUL-2000; 2000US-0217496P.  
PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225477P.  
PR 14-AUG-2000; 2000US-0225577P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226686P.

PR 22-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0228287P.  
PR 01-SEP-2000; 2000US-0228343P.  
PR 01-SEP-2000; 2000US-0228344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230437P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232080P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 12-SEP-2000; 2000US-0231968P.  
PR 14-SEP-2000; 2000US-0232397P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 26-SEP-2000; 2000US-0235484P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235836P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236367P.  
PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0236802P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 13-OCT-2000; 2000US-0237044P.  
PR 13-OCT-2000; 2000US-0239035P.  
PR 13-OCT-2000; 2000US-0239036P.  
PR 13-OCT-2000; 2000US-0239037P.  
PR 20-OCT-2000; 2000US-0240960P.  
PR 20-OCT-2000; 2000US-0241221P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241826P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0246474P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.

PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249219P.  
PR 17-NOV-2000; 2000US-0249224P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0256719P.  
PR 06-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251865P.  
PR 08-DEC-2000; 2000US-0251868P.  
PR 08-DEC-2000; 2000US-0251869P.  
PR 08-DEC-2000; 2000US-0251889P.  
PR 08-DEC-2000; 2000US-0251989P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0255678P.  
XX  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX  
PI Rosen CA, Barash SC, Ruben SM;  
XX WPI; 2001-483426/52.  
XX  
PT Nucleic acids encoding human immune/hematopoietic antigen polypeptides,  
XX useful for preventing, diagnosing and/or treating cancers and metastasis.  
XX  
PS Disclosure; SEQ ID NO 40931; 3071bp + Sequence Listing; English.  
XX  
XX AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)  
XX amino acid sequences given in AAM82170 to AAM91921. (I) have cytosolic  
XX activity, and can be used in gene therapy and vaccine production. (I)  
XX proteins and polynucleotides may be used in the prevention, diagnosis and  
XX treatment of diseases associated with inappropriate (I) expression. For  
XX example, they may be used to treat disorders associated with decreased  
XX expression by rectifying mutations or deletions in a patient's genome  
XX that affect the activity of (I) by expressing inactive proteins or to  
XX supplement the patients own production of (I). Additionally, (I)  
XX polynucleotides may be used to produce the secreted (I), by inserting the  
XX nucleic acids into a host cell and culturing the cell to express the  
XX protein. (I) proteins and polynucleotides may be used to prevent,  
XX diagnose and treat immune/haematopoietic-related diseases, especially  
XX cancers and cancer metastases of haematopoietic-derived cells. AAK64703  
XX to AAK87694 represent human immune/haematopoietic antigen genomic  
XX sequences from the present invention. AAK54942 to AAK54950 and AAM82169  
XX represent sequences used in the exemplification of the present invention  
XX  
SQ Sequence 10396 BP; 3175 A; 2158 C; 2127 G; 2936 T; 0 U; 0 Other;

Query Match 1.6%; Score 50; DB 4; Length 10396;  
Best Local Similarity 100.0%; Pred. No. 1.4e-12;  
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3073 AGATTGTCACACTGCACTCCAGCCTGGGCAACAGAGCAAGACTGTCTC 3122  
Db 5597 AGATTGTCACACTGCACTCCAGCCTGGGCAACAGAGCAAGACTGTCTC 5646

RESULT 45  
ABA20857

ID ABA20857 standard; DNA; 11234 BP.  
XX  
XX ABA20857;  
XX  
XX 23-JAN-2002 (first entry)  
XX  
XX Human nervous system related polynucleotide SEQ ID NO 13188.  
XX  
XX Human; nootropic; neuroprotective; cytosolic; dermatological; virocidic;  
XX immunosuppressive; antiinflammatory; anti-HIV; antibacterial; vulnerary;  
XX antiparkinsonian; antischizoid; antianaemic; antidiabetic; cancer;  
XX antineumatic; hepatotropic; cerebroprotective; antiinflammatory;  
XX antiallergic; antidiabetic; antidiabetic; antidiabetic; antidiabetic;  
XX antipruritic; cardiac; immune disorder; cardiovascular disorder;  
XX neurological disease; infection; nephrotropic; gene therapy; vaccine; ds-  
XX  
XX Homo sapiens.  
XX  
XX W0200159063-A2.  
XX  
XX 16-AUG-2001.  
XX  
XX 17-JAN-2001; 2001WO-US001334.  
XX  
XX 31-JAN-2000; 2000US-0179065P.  
XX 04-FEB-2000; 2000US-0180628P.  
XX 24-FEB-2000; 2000US-0184664P.  
XX 02-MAR-2000; 2000US-0186350P.  
XX 16-MAR-2000; 2000US-0189874P.  
XX 17-MAR-2000; 2000US-0190076P.  
XX 18-APR-2000; 2000US-0198113P.  
XX 19-MAY-2000; 2000US-0205515P.  
XX 07-JUN-2000; 2000US-0209467P.  
XX 28-JUN-2000; 2000US-0214886P.  
XX 30-JUN-2000; 2000US-0215135P.  
XX 07-JUL-2000; 2000US-0216647P.  
XX 07-JUL-2000; 2000US-0216880P.  
XX 11-JUL-2000; 2000US-0217487P.  
XX 11-JUL-2000; 2000US-0217496P.  
XX 14-JUL-2000; 2000US-0218293P.  
XX 26-JUL-2000; 2000US-0220963P.  
XX 26-JUL-2000; 2000US-0220964P.  
XX 14-AUG-2000; 2000US-0224518P.  
XX 14-AUG-2000; 2000US-0224519P.  
XX 14-AUG-2000; 2000US-0225213P.  
XX 14-AUG-2000; 2000US-0225214P.  
XX 14-AUG-2000; 2000US-0225265P.  
XX 14-AUG-2000; 2000US-0225267P.  
XX 14-AUG-2000; 2000US-0225268P.  
XX 14-AUG-2000; 2000US-0225270P.  
XX 14-AUG-2000; 2000US-0225447P.  
XX 14-AUG-2000; 2000US-0225757P.  
XX 14-AUG-2000; 2000US-0225758P.  
XX 14-AUG-2000; 2000US-0225759P.  
XX 18-AUG-2000; 2000US-0226279P.  
XX 22-AUG-2000; 2000US-0226681P.  
XX 22-AUG-2000; 2000US-0226868P.  
XX 22-AUG-2000; 2000US-0227182P.  
XX 23-AUG-2000; 2000US-02277009P.  
XX 30-AUG-2000; 2000US-0228924P.  
XX 01-SEP-2000; 2000US-0229287P.  
XX 01-SEP-2000; 2000US-0229343P.  
XX 01-SEP-2000; 2000US-0229344P.  
XX 01-SEP-2000; 2000US-0229345P.  
XX 05-SEP-2000; 2000US-0229509P.  
XX 05-SEP-2000; 2000US-0229513P.  
XX 06-SEP-2000; 2000US-0230437P.  
XX 06-SEP-2000; 2000US-0230438P.  
XX 08-SEP-2000; 2000US-0231242P.  
XX 08-SEP-2000; 2000US-0231243P.  
XX 08-SEP-2000; 2000US-0231244P.  
XX 08-SEP-2000; 2000US-0231413P.  
XX 08-SEP-2000; 2000US-0231414P.

PR 08-SEP-2000; 2000US-0232080P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 12-SEP-2000; 2000US-0231968P.  
PR 14-SEP-2000; 2000US-0232397P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 26-SEP-2000; 2000US-0235484P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235836P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236367P.  
PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0236802P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 02-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239355P.  
PR 13-OCT-2000; 2000US-0239373P.  
PR 20-OCT-2000; 2000US-0240960P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241866P.  
PR 20-OCT-2000; 2000US-0242221P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0246474P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249264P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249299P.

PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 01-DEC-2000; 2000US-0251568P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0256719P.  
PR 06-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251868P.  
PR 08-DEC-2000; 2000US-0251869P.  
PR 08-DEC-2000; 2000US-0251989P.  
PR 08-DEC-2000; 2000US-0251990P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-025678P.  
PA (HUMA-) HUMAN GENOME SCT INC.  
XX  
XX  
PI Rosen CA, Barash SC, Ruben SM;  
XX  
XX WPI, 2001-541565/60.  
DR  
XX  
XX Nucleic acids encoding 3224 human nervous system antigen polypeptides,  
PT useful for preventing, diagnosing and/or treating nervous system cancers  
PT and metastases.  
XX  
PS Disclosure; SEQ ID NO 13188; 1701bp + Sequence Listing; English.  
XX  
XX The invention relates to novel genes (ABAI1004-ABA21534) and proteins  
CC (ABAI4678-ABAI8001) useful for preventing, treating or ameliorating  
CC medical conditions e.g. by protein or gene therapy. The genes are  
CC isolated from a range of human tissues disclosed in the specification.  
CC The nucleic acids, proteins, antibodies and (ant)agonists are useful in  
CC the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and  
CC ovarian cancer and other cancers of the adrenal gland, bone, bone marrow,  
CC breast, gastrointestinal tract, liver, lung, or urogenital; (b) immune  
CC disorders e.g. Addison's disease, allergies, autoimmune haemolytic  
CC anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease,  
CC multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c)  
CC cardiovascular disorders such as myocardial ischaemia; (d) wound healing  
CC ; (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f)  
CC infectious diseases such as viral, bacterial, fungal and parasitic  
CC infections. Note: The sequence data for this patent did not form part of  
CC the printed specification, but was obtained in electronic format directly  
CC from WIPO at ftp.wipo.int/pub/published\_pct\_sequences  
XX  
SQ Sequence 11234 BP; 3094 A; 2417 C; 2869 G; 2854 T; 0 U; 0 Other;

Query Match 1.6%; Score 50; DB 5; Length 11234;  
Best Local Similarity 100.0%; Pred. No. 1.4e-12;  
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3073 AGATTGTCACCTGACCTCCAGCTGGCAAGAGCAAGACTGTCTC 3122  
DB 11155 AGATTGTCACCTGACCTCCAGCTGGCAAGAGCAAGACTGTCTC 11204

RESULT 46  
AAK80184/C  
ID AAK80184 standard; DNA; 13026 BP.  
XX  
XX AAK80184;  
AC  
XX  
XX 07-NOV-2001 (first entry)  
DT  
XX  
XX Human immune/haematopoietic antigen genomic sequence SEQ ID NO:34996.  
DE  
XX  
XX Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;  
KW cytostatic; gene therapy; vaccine; metastasis; ds.  
XX  
XX Homo sapiens.  
OS  
XX  
XX WO200157182-A2.  
XX

PD 09-AUG-2001.  
XX 17-JAN-2001; 2001WO-US001354.  
XX 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 11-JUL-2000; 2000US-0217496P.  
PR 14-JUL-2000; 2000US-0218230P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225266P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226868P.  
PR 22-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230437P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232080P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 12-SEP-2000; 2000US-0231968P.  
PR 14-SEP-2000; 2000US-0232397P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 26-SEP-2000; 2000US-0235484P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235836P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236367P.

PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0236802P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 02-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239935P.  
PR 13-OCT-2000; 2000US-0239937P.  
PR 20-OCT-2000; 2000US-0240960P.  
PR 20-OCT-2000; 2000US-0241221P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241826P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0246474P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246533P.  
PR 08-NOV-2000; 2000US-0246534P.  
PR 08-NOV-2000; 2000US-0246535P.  
PR 08-NOV-2000; 2000US-0246536P.  
PR 08-NOV-2000; 2000US-0246537P.  
PR 08-NOV-2000; 2000US-0246538P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249264P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249266P.  
PR 17-NOV-2000; 2000US-0249267P.  
PR 17-NOV-2000; 2000US-0249268P.  
PR 17-NOV-2000; 2000US-0249269P.  
PR 17-NOV-2000; 2000US-0249270P.  
PR 17-NOV-2000; 2000US-0249271P.  
PR 17-NOV-2000; 2000US-0249272P.  
PR 17-NOV-2000; 2000US-0249273P.  
PR 17-NOV-2000; 2000US-0249274P.  
PR 17-NOV-2000; 2000US-0249275P.  
PR 17-NOV-2000; 2000US-0249276P.  
PR 17-NOV-2000; 2000US-0249277P.  
PR 17-NOV-2000; 2000US-0249278P.  
PR 17-NOV-2000; 2000US-0249279P.  
PR 17-NOV-2000; 2000US-0249280P.  
PR 17-NOV-2000; 2000US-0249281P.  
PR 17-NOV-2000; 2000US-0249282P.  
PR 17-NOV-2000; 2000US-0249283P.  
PR 17-NOV-2000; 2000US-0249284P.  
PR 17-NOV-2000; 2000US-0249285P.  
PR 17-NOV-2000; 2000US-0249286P.  
PR 17-NOV-2000; 2000US-0249287P.  
PR 17-NOV-2000; 2000US-0249288P.  
PR 17-NOV-2000; 2000US-0249289P.  
PR 17-NOV-2000; 2000US-0249290P.  
PR 17-NOV-2000; 2000US-0249291P.  
PR 17-NOV-2000; 2000US-0249292P.  
PR 17-NOV-2000; 2000US-0249293P.  
PR 17-NOV-2000; 2000US-0249294P.  
PR 17-NOV-2000; 2000US-0249295P.  
PR 17-NOV-2000; 2000US-0249296P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249298P.  
PR 17-NOV-2000; 2000US-0249299P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0256719P.  
PR 06-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251868P.  
PR 08-DEC-2000; 2000US-0251869P.  
PR 08-DEC-2000; 2000US-0251989P.  
PR 08-DEC-2000; 2000US-0251990P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0259678P.  
(HUMA-) HUMAN GENOME SCI INC.  
XX  
XX  
PI Rosen CA, Barash SC, Ruben SM;  
XX WPI; 2001-483426/52.  
DR



XX	Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
PT	useful for preventing, diagnosing and/or treating cancers and metastasis.
XX	
XX	
P5	Disclosure; SEQ ID NO 34996; 3071pp + Sequence Listing; English.
XX	
CC	AAXK4951 to AAK64702 encode the human immune/haematopoietic antigen (I)
CC	amino acid sequences given in AAM82170 to AAM91921. (I) have cytosstatic
CC	activity, and can be used in gene therapy and vaccine production. (II)
CC	proteins and polynucleotides may be used in the prevention, diagnosis and
CC	treatment of diseases associated with inappropriate (I) expression. For
CC	example, they may be used to treat disorders associated with decreased
CC	expression by rectifying mutations or deletions in a patient's genome
CC	that affect the activity of (I) by expressing inactive proteins or to
CC	supplement the patients own production of (I). Additionally, (I)
CC	polynucleotides may be used to produce the secreted (I), by inserting the
CC	nucleic acids into a host cell and culturing the cell to express the
CC	protein. (I) proteins and polynucleotides may be used to prevent,
CC	diagnose and treat immune/haematopoietic-related diseases, especially
CC	cancers and cancer metastases of haematopoietic-derived cells. AAK64703
CC	to AAK7694 represent human immune/haematopoietic antigen genomic
CC	sequences from the present invention. AAX54942 to AAX54950 and AAM82169
CC	represent sequences used in the exemplification of the present invention
XX	
SQ	Sequence 13026 BP; 4098 A; 2489 C; 2384 G; 4055 T; 0 U; 0 Other;
OY	
Db	
	Query Match                      1.6%; Score 50; DB 4; Length 13026; Best Local Similarity    100.0%; Pred. No. 1.4e-12; Matches    50; Conservative    0; Mismatches    0; Indels    0; Gaps    0
	3073 AGATTGTGGCACTGCACCTCCAGCCTGAGCAACAAGCAAGACTCTGTCTC 3122 8926 AGATTGTGGCACTGCACCTCCAGCCTGAGCAACAAGCAAGACTCTGTCTC 8877
RESULT 47	
AAK80185/C	
ID	AAK80185 standard; DNA; 13026 BP.
XX	
AC	AAK80185;
XX	
DT	07-NOV-2001 (first entry)
XX	
DE	Human immune/haematopoietic antigen genomic sequence SEQ ID NO:34997.
XX	
KW	Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
OS	Cytostatic; gene therapy; vaccine; metastasis; ds.
XX	
XX	Homo sapiens.
PN	WO200157182-A2.
PD	
PF	09-AUG-2001.
XX	
XX	17-JAN-2001; 2001WO-US001354.
PR	
PR	31-JAN-2000; 2000US-0179065P.
PR	04-FEB-2000; 2000US-0180628P.
PR	24-FEB-2000; 2000US-0184664P.
PR	02-MAR-2000; 2000US-0186350P.
PR	16-MAR-2000; 2000US-0189874P.
PR	17-MAR-2000; 2000US-0190076P.
PR	18-APR-2000; 2000US-0198123P.
PR	19-MAY-2000; 2000US-0205515P.
PR	07-JUN-2000; 2000US-0209467P.
PR	28-JUN-2000; 2000US-0214886P.
PR	30-JUN-2000; 2000US-0215135P.
PR	07-JUL-2000; 2000US-0216647P.
PR	07-JUL-2000; 2000US-0216880P.
PR	11-JUL-2000; 2000US-0217487P.
PR	11-JUL-2000; 2000US-0217496P.
PR	14-JUL-2000; 2000US-0218290P.
PR	26-JUL-2000; 2000US-0220963P.

PR	26-JUL-2000	2000US-0220964P
PR	14-AUG-2000	2000US-0224518P
PR	14-AUG-2000	2000US-0224519P
PR	14-AUG-2000	2000US-0225213P
PR	14-AUG-2000	2000US-0225214P
PR	14-AUG-2000	2000US-0225266P
PR	14-AUG-2000	2000US-0225267P
PR	14-AUG-2000	2000US-0225268P
PR	14-AUG-2000	2000US-0225270P
PR	14-AUG-2000	2000US-0225447P
PR	14-AUG-2000	2000US-0225757P
PR	14-AUG-2000	2000US-0225758P
PR	14-AUG-2000	2000US-0225759P
PR	18-AUG-2000	2000US-0226279P
PR	18-AUG-2000	2000US-0226681P
PR	22-AUG-2000	2000US-0226688P
PR	22-AUG-2000	2000US-0227182P
PR	23-AUG-2000	2000US-0227009P
PR	30-AUG-2000	2000US-0228924P
PR	01-SEP-2000	2000US-0229287P
PR	01-SEP-2000	2000US-0229343P
PR	01-SEP-2000	2000US-0229344P
PR	01-SEP-2000	2000US-0229345P
PR	05-SEP-2000	2000US-0229509P
PR	05-SEP-2000	2000US-0229551P
PR	06-SEP-2000	2000US-0230437P
PR	06-SEP-2000	2000US-0230438P
PR	08-SEP-2000	2000US-0231242P
PR	08-SEP-2000	2000US-0231243P
PR	08-SEP-2000	2000US-0231244P
PR	08-SEP-2000	2000US-0231413P
PR	08-SEP-2000	2000US-0231414P
PR	08-SEP-2000	2000US-0232080P
PR	08-SEP-2000	2000US-0232081P
PR	12-SEP-2000	2000US-0231968P
PR	14-SEP-2000	2000US-0232357P
PR	14-SEP-2000	2000US-0232358P
PR	14-SEP-2000	2000US-0232359P
PR	14-SEP-2000	2000US-0232400P
PR	14-SEP-2000	2000US-0232401P
PR	14-SEP-2000	2000US-0232633P
PR	14-SEP-2000	2000US-0232634P
PR	21-SEP-2000	2000US-0234223P
PR	21-SEP-2000	2000US-0234223P
PR	25-SEP-2000	2000US-0234997P
PR	25-SEP-2000	2000US-0234998P
PR	25-SEP-2000	2000US-0235369P
PR	26-SEP-2000	2000US-0235484P
PR	26-SEP-2000	2000US-0235834P
PR	27-SEP-2000	2000US-0235836P
PR	27-SEP-2000	2000US-0236337P
PR	29-SEP-2000	2000US-0236357P
PR	29-SEP-2000	2000US-0236358P
PR	29-SEP-2000	2000US-0236359P
PR	29-SEP-2000	2000US-0236370P
PR	02-OCT-2000	2000US-0236802P
PR	02-OCT-2000	2000US-0237037P
PR	02-OCT-2000	2000US-0237038P
PR	02-OCT-2000	2000US-0237039P
PR	02-OCT-2000	2000US-0237040P
PR	13-OCT-2000	2000US-0239935P
PR	13-OCT-2000	2000US-0239937P
PR	20-OCT-2000	2000US-0240560P
PR	20-OCT-2000	2000US-0241231P
PR	20-OCT-2000	2000US-0241785P
PR	20-OCT-2000	2000US-0241786P
PR	20-OCT-2000	2000US-0241787P
PR	20-OCT-2000	2000US-0241808P
PR	20-OCT-2000	2000US-0241809P
PR	01-NOV-2000	2000US-0244617P
PR	08-NOV-2000	2000US-0246474P
PR	08-NOV-2000	2000US-0246475P



PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230437P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232080P.  
PR 12-SEP-2000; 2000US-0232081P.  
PR 14-SEP-2000; 2000US-0232397P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234979P.  
PR 25-SEP-2000; 2000US-0234988P.  
PR 26-SEP-2000; 2000US-0235484P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235836P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236367P.  
PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 02-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239335P.  
PR 13-OCT-2000; 2000US-0239337P.  
PR 20-OCT-2000; 2000US-0240960P.  
PR 20-OCT-2000; 2000US-0241221P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241826P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0246474P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.

PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249264P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249299P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0256719P.  
PR 06-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251859P.  
PR 08-DEC-2000; 2000US-0251989P.  
PR 08-DEC-2000; 2000US-0251990P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0259678P.  
  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX  
XX PA  
XX PI Rosen CA, Barash SC, Ruben SM;  
XX WPI, 2001-465570/50.  
XX  
XX DR  
XX PT Isolated nucleic acid molecule encoding a reproductive system antigen is  
XX used in preventing, treating or ameliorating a medical condition.  
XX  
XX PS Disclousure; SEQ ID NO 8149; 1297bp + Sequence Listing; English.  
XX  
XX CC The present invention provides the protein and coding sequences of a  
XX number of human reproductive system related antigens. These can be used  
XX in the prevention and treatment of reproductive system disorders,  
XX including cancer. The present sequence is a genomic sequence encoding a  
XX protein of the invention  
XX  
XX SQ Sequence 31474 BP; 9245 A; 6055 C; 6292 G; 9882 T; 0 U; 0 Other;  
  
Query Match 1.6%; Score 50; DB 4; Length 31474;  
Best Local Similarity 100.0%; Pred. No. 1.3e-12;  
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 3073 AGATTGTCACATGACATCCAGCTGGGCAACAGCAAGACTGTCTTC 3122  
Db 72 AGATTGTCACATGACATCCAGCTGGGCAACAGCAAGACTGTCTTC 23  
  
RESULT 49  
ABL98314/C  
ID ABL98314 standard; DNA; 31474 BP.  
XX  
XX ABL98314;  
XX  
XX 21-UTN-2002 (first entry)  
XX  
XX Human testicular antigen encoding DNA fragment SEQ ID NO: 2966.  
XX  
XX Human; testicular antigen; testes; cancer; metastasis; immune disorder;  
XX reproductive system disorder; urinary system disorder; gene therapy;  
XX cardiovascular disorder; respiratory disorder; neurological disorder;  
XX gastrointestinal disease; infection; cytostatic; gene; da.  
XX  
XX Homo sapiens.  
XX  
XX OS  
XX PN WO20015317-A2.  
XX



XX Nucleic acids encoding 973 human testicular antigen polypeptides, useful  
PT for preventing, diagnosing and/or treating testicular cancer.  
XX  
PS Disclosure; SEQ ID NO 2966; 766bp; English.  
XX  
CC The present invention provides the protein and coding sequences of 973  
CC human testicular antigens, and fragments of their genomic sequences. The  
CC sequences can be used in the treatment of cardiovascular, urinary system,  
CC reproductive system, immune, respiratory, neurological and  
CC gastrointestinal disorders, infections, and particularly cancer,  
CC especially testicular cancers. The present sequence is a DNA encoding a  
CC protein fragment of the invention  
XX  
SQ Sequence 31474 BP; 9245 A; 6055 C; 6292 G; 9882 T; 0 U; 0 Other;  
Query Match 1.6%; Score 50; DB 4; Length 31474;  
Best Local Similarity 100.0%; Pred. No. 1.3e-12;  
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 3073 AGATTGTGCACCTGACCTGACCTGGGCAAGAGCAAGACTGTCTTC 3122  
Db 72 AGATTGTGCACCTGACCTGACCTGGGCAAGAGCAAGACTGTCTTC 23  
RESULT 50  
AAS30115/C  
ID AAS30115 standard; DNA; 32189 BP.  
XX  
AC AAS30115;  
XX  
DT 21-NOV-2001 (first entry)  
XX  
DE Human lung antigen genomic DNA #185.  
XX  
KW Lung antigen protein; human; mouse; rabbit; goat; horse; cat; dog;  
KW chicken; sheep; immunosuppressive; antiarthritic; vasotropic;  
KW antirheumatic; antiproliferative; cytosolic; cardiant; neuroprotective;  
KW cerebroprotective; nootropic; antibacterial; virucide; fungicide; cancer;  
KW ophthalmological; vulnerrary; gene therapy; autoimmune disease; neoplasm;  
KW hyperproliferative disorder; breast; liver; cardiovascular disorder; ds;  
KW cerebrovascular disorder; nervous system disorder; bacterial infection;  
KW fungal infection; viral infection; ocular disorder; endocrine disorder;  
KW gastrointestinal disorder; renal disorder; respiratory disorder;  
KW wound healing; skin aging; organ transplantation; food preservative;  
KW tissue regeneration; anti-infertility; food additive.  
XX  
OS Homo sapiens.  
XX  
PN MO200155303-A2.  
XX  
PD 02-AUG-2001.  
XX  
PF 17-JAN-2001; 2001WO-US001301.  
XX  
PR 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214866P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 11-JUL-2000; 2000US-0217496P.  
PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.

PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225266P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226682P.  
PR 22-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 05-SEP-2000; 2000US-0230437P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232080P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 12-SEP-2000; 2000US-0231968P.  
PR 14-SEP-2000; 2000US-0232397P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 26-SEP-2000; 2000US-0235484P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235836P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236367P.  
PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 02-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239935P.  
PR 13-OCT-2000; 2000US-0240966P.  
PR 20-OCT-2000; 2000US-0241221P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241826P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0246474P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.

PR	08-NOV-2000;	2000US-0246477P.
PR	08-NOV-2000;	2000US-0246478P.
PR	08-NOV-2000;	2000US-0246523P.
PR	08-NOV-2000;	2000US-0246524P.
PR	08-NOV-2000;	2000US-0246525P.
PR	08-NOV-2000;	2000US-0246526P.
PR	08-NOV-2000;	2000US-0246527P.
PR	08-NOV-2000;	2000US-0246528P.
PR	08-NOV-2000;	2000US-0246532P.
PR	08-NOV-2000;	2000US-0246609P.
PR	08-NOV-2000;	2000US-0246610P.
PR	08-NOV-2000;	2000US-0246611P.
PR	08-NOV-2000;	2000US-0246613P.
PR	17-NOV-2000;	2000US-0249207P.
PR	17-NOV-2000;	2000US-0249208P.
PR	17-NOV-2000;	2000US-0249209P.
PR	17-NOV-2000;	2000US-0249210P.
PR	17-NOV-2000;	2000US-0249211P.
PR	17-NOV-2000;	2000US-0249212P.
PR	17-NOV-2000;	2000US-0249213P.
PR	17-NOV-2000;	2000US-0249214P.
PR	17-NOV-2000;	2000US-0249215P.
PR	17-NOV-2000;	2000US-0249216P.
PR	17-NOV-2000;	2000US-0249217P.
PR	17-NOV-2000;	2000US-0249218P.
PR	17-NOV-2000;	2000US-0249244P.
PR	17-NOV-2000;	2000US-0249245P.
PR	17-NOV-2000;	2000US-0249264P.
PR	17-NOV-2000;	2000US-0249297P.
PR	17-NOV-2000;	2000US-0249299P.
PR	17-NOV-2000;	2000US-0249300P.
PR	01-DEC-2000;	2000US-0250160P.
PR	01-DEC-2000;	2000US-0250391P.
PR	05-DEC-2000;	2000US-0251030P.
PR	05-DEC-2000;	2000US-0251988P.
PR	05-DEC-2000;	2000US-0256719P.
PR	06-DEC-2000;	2000US-0251479P.
PR	08-DEC-2000;	2000US-0251856P.
PR	08-DEC-2000;	2000US-0251868P.
PR	08-DEC-2000;	2000US-0251869P.
PR	08-DEC-2000;	2000US-0251989P.
PR	08-DEC-2000;	2000US-0251990P.
PR	11-DEC-2000;	2000US-0254097P.
PR	05-JAN-2001;	2001US-0259678P.
PA	(HMDA-) HUMAN GENOME SCI INC.	
XX		
XX	Rosen CA,	Barash SC, Ruben SM;
XX	WPI; 2001-457723/49.	
XX		
PT	Isolated polypeptide for treating, preventing and/ or prognosing	
PT	respiratory disorders related to the lung including lung cancers and also	
PT	for testing and detection e.g. diagnosis.	
XX		
PS	Claim 1; SEQ ID NO 379; 507pp; English.	
XX		
CC	Sequences AAS29931-AAS30164 represent genomic DNA molecules, which encode	
CC	the lung antigen polypeptides of the invention. Lung antigen polypeptides	
CC	and their associated polynucleotides are useful in the diagnosis,	
CC	treatment and prevention of various types of disorders in e.g. humans,	
CC	mice, rabbits, goats, horses, cats, dogs, chickens or sheep. A	
CC	pathological condition can be determined by detecting the presence or	
CC	absence of a mutation in a lung antigen polynucleotide. The treatable	
CC	disorders include autoimmune diseases such as rheumatoid arthritis,	
CC	hyperproliferative disorders such as neoplasms of the breast or liver,	
CC	cardiovascular disorders such as cardiac arrest, cerebrovascular	
CC	disorders such as cerebral ischemia, nervous system disorders such as	
CC	Alzheimer's disease, infections caused by bacteria, viruses and fungi,	
CC	ocular disorders such as corneal infection, endocrine disorders such as	
CC	premature labour and infertility, gastrointestinal disorders such as	
CC	Cromb's disease, renal disorders such as glomerulonephritis and	

[illegible]



CC ; endocrine disorders such as Cushing's syndrome, corticosteroid

Query Match 1.6%; Score 50; DB 10; Length 32189;  
Best Local Similarity 100.0%; Pred. No. 1.3e-12;  
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3073 AGATTGTGCACCTGCACTCCAGCCTGGGCAACAGAGCAAGACTGTCTC 3122  
DB 12517 AGATTGTGCACCTGCACTCCAGCCTGGGCAACAGAGCAAGACTGTCTC 12468

RESULT 52  
AADI6595/c  
ID AADI6595 standard; DNA; 32193 BP.

XX AADI6595;

XX 19-NOV-2001 (first entry)

XX Human novel protein-encoding gene 7, SEQ ID NO:37.

XX Human; iron-associated protein; gene therapy; autoimmune disease;  
XX rheumatoid arthritis; hyperproliferative disorder; neoplasm; fungicide;  
XX cardiovascular disorder; cardiac arrest; cerebrovascular disorder;  
XX cerebral ischaemia; angiogenesis; nervous system disorder; chemotaxis;  
XX Alzheimer's disease; infection; ocular disorder; cerebroprotective;  
XX skin aging; food additive; food preservative; immunosuppressive;  
XX antiarthritic; antiproliferative; wound healing; cardiant; vasotropic;  
XX neurotropic; cytostatic; antirheumatic; neuroprotective; antibacterial;  
XX virucide; ophthalmological; chromosome 2q33-q34; db.

XX Homo sapiens.

XX Key Location/Qualifiers

FT 1.218  
FT /\*tag= a  
FT 219..305  
FT /\*tag= b  
FT 306..1101  
FT /\*tag= c  
FT 1102..1160  
FT /\*tag= d  
FT 1161..1191  
FT /\*tag= e  
FT 1192..1386  
FT /\*tag= f  
FT 1387..2353  
FT /\*tag= g  
FT 2354..2392  
FT /\*tag= h  
FT 2393..2766  
FT /\*tag= i  
FT 2767..2869  
FT /\*tag= j  
FT 2870..3378  
FT /\*tag= k  
FT 3379..3461  
FT /\*tag= l  
FT 3462..3949  
FT /\*tag= m  
FT 3950..4405  
FT /\*tag= n  
FT 4406..4834  
FT /\*tag= o  
FT 4835..6646  
FT /\*tag= p  
FT 6647..6928  
FT /\*tag= q  
FT 6929..8021  
FT /\*tag= r  
FT 8022..8980  
FT /\*tag= s  
FT 8981..9246

FT /\*tag= t  
FT 9247..9313  
FT /\*tag= u  
FT 9314..9327  
FT /\*tag= v  
FT 9328..9714  
FT /\*tag= w  
FT 9715..10267  
FT /\*tag= x  
FT 10268..10850  
FT /\*tag= y  
FT 10851..10942  
FT /\*tag= z  
FT 10943..11059  
FT /\*tag= aa  
FT 11060..11061  
FT /\*tag= ab  
FT 11062..11399  
FT /\*tag= ac  
FT 11400..11570  
FT /\*tag= ad  
FT 11571..12017  
FT /\*tag= ae  
FT 12018..13006  
FT /\*tag= af  
FT 13007..13119  
FT /\*tag= ag  
FT 13120..13836  
FT /\*tag= ah  
FT 13837..13912  
FT /\*tag= ai  
FT 13913..15093  
FT /\*tag= aj  
FT 15094..15179  
FT /\*tag= ak  
FT 15180..15267  
FT /\*tag= al  
FT 15268..15402  
FT /\*tag= am  
FT 15401..15840  
FT /\*tag= an  
FT 15841..16053  
FT /\*tag= ao  
FT 16054..17899  
FT /\*tag= ap  
FT 17900..18039  
FT /\*tag= aq  
FT 18040..18796  
FT /\*tag= ar  
FT 18797..18912  
FT /\*tag= as  
FT 18913..20098  
FT /\*tag= at  
FT 20099..20246  
FT /\*tag= au  
FT 20247..20861  
FT /\*tag= av  
FT 20862..20990  
FT /\*tag= aw  
FT 20991..21552  
FT /\*tag= ax  
FT 21320..24258  
FT /\*tag= ab  
FT 21553..21666  
FT /\*tag= ay  
FT 21667..22204  
FT /\*tag= az  
FT 22205..22319  
FT /\*tag= ba  
FT 24259..24452  
FT /\*tag= bc  
FT 24453..25681  
FT /\*tag= bd



FT	exon	25682..25991	/tag= be
FT	intron	25992..26053	/tag= bf
FT	exon	26054..26158	/tag= bg
FT	intron	26159..26324	/tag= bh
FT	exon	26325..26539	/tag= bi
FT	intron	26540..29316	/tag= bj
FT	exon	29317..29991	/tag= bk
FT	intron	29992..32275	/tag= bl
FT	exon	32276..32335	/tag= bm
FT	intron	32336..32657	/tag= bn
FT	exon	32658..32844	/tag= bo
FT	intron	32845..34941	/tag= bp
FT	exon	34942..35137	/tag= bq
FT	intron	35138..36084	/tag= br
FT	exon	36085..36224	/tag= bs
FT	intron	36225..36317	/tag= bt
FT	exon	36318..36392	/tag= bu
FT	intron	36393..38584	/tag= bv
FT	exon	38585..39852	/tag= bw
XX	WO20015307-A2.		
XX	02-AUG-2001.		
PD	17-JAN-2001; 2001WO-US001306.		
XX	31-JAN-2000; 2000US-0179065P.		
PR	04-FEB-2000; 2000US-0180628P.		
PR	24-FEB-2000; 2000US-0184664P.		
PR	02-MAR-2000; 2000US-0186350P.		
PR	16-MAR-2000; 2000US-0189874P.		
PR	17-MAR-2000; 2000US-0190076P.		
PR	18-APR-2000; 2000US-0198123P.		
PR	19-MAY-2000; 2000US-0205151P.		
PR	07-JUN-2000; 2000US-0209467P.		
PR	28-JUN-2000; 2000US-0214886P.		
PR	30-JUN-2000; 2000US-0215135P.		
PR	07-JUL-2000; 2000US-0216477P.		
PR	07-JUL-2000; 2000US-0216880P.		
PR	11-JUL-2000; 2000US-0217487P.		
PR	14-JUL-2000; 2000US-0218290P.		
PR	26-JUL-2000; 2000US-0220963P.		
PR	26-JUL-2000; 2000US-0220964P.		
PR	14-AUG-2000; 2000US-0224518P.		
PR	14-AUG-2000; 2000US-0224519P.		
PR	14-AUG-2000; 2000US-0225213P.		
PR	14-AUG-2000; 2000US-0225214P.		
XX	Query Match	1.6%;	Score 50; DB 4; Length 32193;
XX	Best Local Similarity	100.0%;	Pred. No. 1.3e-12;
XX	Matches	50; Conservative	0; Mismatches 0; Indels 0; Gaps 0;
QY	3073	AGATTGTGCACCTGCACCTCCAGCCTGGGCAACAGACGAACTCTGTCTC	3122

DB	28855	AGATTGTGCACCTGCACCTCCAGCCTGGGCAACAGACGAACTCTGTCTC	28806
RESULT 53			
AL36258/c			
ID	AL36258	standard; DNA; 32193 BP.	
XX	AL36258;		
AC	08-JAN-2002	(first entry)	
DT	Human musculoskeletal system related polynucleotide SEQ ID NO 2623.		
XX			
XX	Cytostatic; immunosuppressive; nootropic; neuroprotective; antiviral;		
KW	antiallergic; hepatotropic; antidiabetic; antiinflammatory; antitumor;		
KW	vulnerable; anticonvulsant; antibacterial; antifungal; antiparasitic;		
KW	cardiant; gene therapy; cancer; immune disorder; cardiovascular disorder;		
KW	neurological disease; infection; human; secreted protein;		
XX	musculoskeletal system; ds.		
OS	Homo sapiens.		
XX	WO20015367-A1.		
XX	02-AUG-2001.		
PD	17-JAN-2001; 2001WO-US001338.		
XX	31-JAN-2000; 2000US-0179065P.		
PR	04-FEB-2000; 2000US-0180628P.		
PR	24-FEB-2000; 2000US-0184664P.		
PR	02-MAR-2000; 2000US-0186350P.		
PR	16-MAR-2000; 2000US-0189874P.		
PR	17-MAR-2000; 2000US-0190076P.		
PR	18-APR-2000; 2000US-0198123P.		
PR	19-MAY-2000; 2000US-0205151P.		
PR	07-JUN-2000; 2000US-0209467P.		
PR	28-JUN-2000; 2000US-0214886P.		
PR	30-JUN-2000; 2000US-0215135P.		
PR	07-JUL-2000; 2000US-0216647P.		
PR	07-JUL-2000; 2000US-0216880P.		
PR	11-JUL-2000; 2000US-0217487P.		
PR	14-JUL-2000; 2000US-0218290P.		
PR	14-JUL-2000; 2000US-0218290P.		
PR	26-JUL-2000; 2000US-0220963P.		
PR	14-AUG-2000; 2000US-0224518P.		
PR	14-AUG-2000; 2000US-0224519P.		
PR	14-AUG-2000; 2000US-0225213P.		
PR	14-AUG-2000; 2000US-0225214P.		
PR	14-AUG-2000; 2000US-0225266P.		
PR	14-AUG-2000; 2000US-0225267P.		
PR	14-AUG-2000; 2000US-0225268P.		
PR	14-AUG-2000; 2000US-0225270P.		
PR	14-AUG-2000; 2000US-0225447P.		
PR	14-AUG-2000; 2000US-0225757P.		
PR	14-AUG-2000; 2000US-0225758P.		
PR	14-AUG-2000; 2000US-0225759P.		
PR	18-AUG-2000; 2000US-0226279P.		
PR	22-AUG-2000; 2000US-0226681P.		
PR	22-AUG-2000; 2000US-0226682P.		
PR	22-AUG-2000; 2000US-0227182P.		
PR	23-AUG-2000; 2000US-0227183P.		
PR	30-SEP-2000; 2000US-0228287P.		
PR	01-SEP-2000; 2000US-0229287P.		
PR	01-SEP-2000; 2000US-0229343P.		
PR	01-SEP-2000; 2000US-0229344P.		
PR	01-SEP-2000; 2000US-0229345P.		
PR	05-SEP-2000; 2000US-0229509P.		
PR	05-SEP-2000; 2000US-0229513P.		
PR	06-SEP-2000; 2000US-0230437P.		
PR	06-SEP-2000; 2000US-0230438P.		

PR 08-SEP-2000; 2000US-0231242P.  
 PR 08-SEP-2000; 2000US-0231243P.  
 PR 08-SEP-2000; 2000US-0231244P.  
 PR 08-SEP-2000; 2000US-0231413P.  
 PR 08-SEP-2000; 2000US-0231414P.  
 PR 08-SEP-2000; 2000US-0232080P.  
 PR 08-SEP-2000; 2000US-0232081P.  
 PR 12-SEP-2000; 2000US-0231968P.  
 PR 14-SEP-2000; 2000US-0232398P.  
 PR 14-SEP-2000; 2000US-0232399P.  
 PR 14-SEP-2000; 2000US-0232399P.  
 PR 14-SEP-2000; 2000US-0232400P.  
 PR 14-SEP-2000; 2000US-0232401P.  
 PR 14-SEP-2000; 2000US-0233063P.  
 PR 14-SEP-2000; 2000US-0233064P.  
 PR 14-SEP-2000; 2000US-0233065P.  
 PR 21-SEP-2000; 2000US-0234223P.  
 PR 21-SEP-2000; 2000US-0234274P.  
 PR 25-SEP-2000; 2000US-0234997P.  
 PR 25-SEP-2000; 2000US-0234998P.  
 PR 26-SEP-2000; 2000US-0235484P.  
 PR 27-SEP-2000; 2000US-0235834P.  
 PR 27-SEP-2000; 2000US-0235835P.  
 PR 29-SEP-2000; 2000US-0236327P.  
 PR 29-SEP-2000; 2000US-0236367P.  
 PR 29-SEP-2000; 2000US-0236368P.  
 PR 29-SEP-2000; 2000US-0236369P.  
 PR 29-SEP-2000; 2000US-0236370P.  
 PR 02-OCT-2000; 2000US-0236802P.  
 PR 02-OCT-2000; 2000US-0237037P.  
 PR 02-OCT-2000; 2000US-0237038P.  
 PR 02-OCT-2000; 2000US-0237039P.  
 PR 02-OCT-2000; 2000US-0237040P.  
 PR 13-OCT-2000; 2000US-0239935P.  
 PR 13-OCT-2000; 2000US-0239937P.  
 PR 20-OCT-2000; 2000US-0240960P.  
 PR 20-OCT-2000; 2000US-0241221P.  
 PR 20-OCT-2000; 2000US-0241786P.  
 PR 20-OCT-2000; 2000US-0241786P.  
 PR 20-OCT-2000; 2000US-0241787P.  
 PR 20-OCT-2000; 2000US-0241808P.  
 PR 20-OCT-2000; 2000US-0241809P.  
 PR 20-OCT-2000; 2000US-0241828P.  
 PR 01-NOV-2000; 2000US-0244617P.  
 PR 08-NOV-2000; 2000US-0246474P.  
 PR 08-NOV-2000; 2000US-0246475P.  
 PR 08-NOV-2000; 2000US-0246476P.  
 PR 08-NOV-2000; 2000US-0246477P.  
 PR 08-NOV-2000; 2000US-0246478P.  
 PR 08-NOV-2000; 2000US-0246523P.  
 PR 08-NOV-2000; 2000US-0246524P.  
 PR 08-NOV-2000; 2000US-0246525P.  
 PR 08-NOV-2000; 2000US-0246525P.  
 PR 08-NOV-2000; 2000US-0246527P.  
 PR 08-NOV-2000; 2000US-0246528P.  
 PR 08-NOV-2000; 2000US-0246532P.  
 PR 08-NOV-2000; 2000US-0246609P.  
 PR 08-NOV-2000; 2000US-0246610P.  
 PR 08-NOV-2000; 2000US-0246611P.  
 PR 08-NOV-2000; 2000US-0246613P.  
 PR 17-NOV-2000; 2000US-0249207P.  
 PR 17-NOV-2000; 2000US-0249208P.  
 PR 17-NOV-2000; 2000US-0249209P.  
 PR 17-NOV-2000; 2000US-0249210P.  
 PR 17-NOV-2000; 2000US-0249211P.  
 PR 17-NOV-2000; 2000US-0249212P.  
 PR 17-NOV-2000; 2000US-0249213P.  
 PR 17-NOV-2000; 2000US-0249214P.  
 PR 17-NOV-2000; 2000US-0249215P.  
 PR 17-NOV-2000; 2000US-0249216P.  
 PR 17-NOV-2000; 2000US-0249217P.  
 PR 17-NOV-2000; 2000US-0249218P.  
 PR 17-NOV-2000; 2000US-0249244P.

PR 17-NOV-2000; 2000US-0249245P.  
 PR 17-NOV-2000; 2000US-0249246P.  
 PR 17-NOV-2000; 2000US-0249247P.  
 PR 17-NOV-2000; 2000US-0249297P.  
 PR 17-NOV-2000; 2000US-0249297P.  
 PR 17-NOV-2000; 2000US-0249300P.  
 PR 01-DEC-2000; 2000US-0250160P.  
 PR 01-DEC-2000; 2000US-0250391P.  
 PR 05-DEC-2000; 2000US-0251030P.  
 PR 05-DEC-2000; 2000US-0251988P.  
 PR 05-DEC-2000; 2000US-0256719P.  
 PR 06-DEC-2000; 2000US-0251479P.  
 PR 08-DEC-2000; 2000US-0251856P.  
 PR 08-DEC-2000; 2000US-0251868P.  
 PR 08-DEC-2000; 2000US-0251869P.  
 PR 08-DEC-2000; 2000US-0251989P.  
 PR 08-DEC-2000; 2000US-0251990P.  
 PR 11-DEC-2000; 2000US-0254097P.  
 PR 05-JAN-2001; 2001US-0259678P.  
 XX  
 PA (HUMA-) HUMAN GENOME SCI INC.  
 XX  
 PI Rosen CA, Barash SC, Ruben SM;  
 XX WPI; 2001-451937/48.  
 DR  
 XX  
 XX Isolated polypeptide for treating, preventing and/or prognosing  
 PT disorders related to the musculoskeletal system including musculoskeletal  
 PT cancers and also for testing and detection e.g. diagnosis.  
 XX  
 XX Example 2; SEQ ID NO 2623; 781pp + Sequence Listing; English.  
 PS  
 XX The invention relates to novel genes (AAU34663-AAU37666) and proteins  
 CC (ABB01087-ABB04109) associated with the musculoskeletal system useful for  
 CC preventing, treating or ameliorating medical conditions e.g. by protein  
 CC or gene therapy. The genes are isolated from a range of human tissues  
 CC disclosed in the specification. The nucleic acids, proteins, antibodies  
 CC and (ant)agonists are useful in the diagnosis, treatment and prevention  
 CC of: (a) cancer, e.g. breast and ovarian cancer and other cancers of the  
 CC adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver,  
 CC lung, or urogenital; (b) immune disorders e.g. Addison's disease,  
 CC allergies, autoimmune haemolytic anaemia, autoimmune thyroiditis,  
 CC diabetes mellitus, Crohn's disease, multiple sclerosis, rheumatoid  
 CC arthritis and ulcerative colitis; (c) cardiovascular disorders such as  
 CC myocardial ischaemia; (d) wound healing; (e) neurological diseases e.g.  
 CC cerebral anoxia and epilepsy; and (f) infectious diseases such as viral,  
 CC bacterial, fungal and parasitic infections. Note: The sequence data for  
 CC this patent did not form part of the printed specification, but was  
 CC obtained in electronic format directly from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 XX  
 SQ Sequence 32193 BP; 10182 A; 6701 C; 6066 G; 9244 T; 0 U; 0 Other;  
 Query Match 1.6%; Score 50; DB 4; Length 32193;  
 Best Local Similarity 100.0%; Pred. No. 1.3e-12;  
 Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 GY 3073 AGATTGTCACCTGACCTCCAGCTGGGCAACAGAGCAAGACTGTCTC 3122  
 DB 28855 AGATTGTCACCTGACCTCCAGCTGGGCAACAGAGCAAGACTGTCTC 28806  
 RESULT 54  
 ID ABX59246/c  
 XX ABX59246 standard; cDNA: 32193 BP.  
 AC ABX59246;  
 XX  
 DT 26-FEB-2003 (first entry)  
 XX  
 DE cDNA encoding novel human musculoskeletal system antigen #1590.  
 XX  
 XX Gene; ss; musculoskeletal system antigen; cancer; metastasis;

re-vascularisation; thrombosis; arteriosclerosis; mineral content;  
cardiovascular condition; wound; injury; burn; angiogenesis; ulcer;  
post-operative tissue repair; limb regeneration; neuronal growth;  
neurodegenerative disorder; Alzheimer's disease; Parkinson's disease;  
AIDS-related complex; chondrocyte growth; bone regeneration;  
periodontal regeneration; tissue transport; bone graft; skin aging;  
keratinocyte growth; hair loss; melanocyte growth; cell proliferation;  
cell growth; organ transplant; cell differentiation; body height; weight;  
hair colour; eye colour; skin; percentage of adipose tissue;  
pigmentation; cosmetic surgery; metabolism; biorhythm; cardiac rhythm;  
depression; tendency for violence; pain; reproductive capability;  
hormone level; endocrine level; appetite; libido; memory; stress;  
storage capability; fat content; lipid content; protein content;  
carbohydrate content; vitamin content; cofactor content;  
nutritional component.

XX Homo sapiens.  
OS  
XX  
XX US2002147140-A1.  
XX  
XX  
XX 10-OCT-2002.  
XX  
XX  
XX 17-JAN-2001; 2001US-00764877.  
XX  
XX  
XX 31-JAN-2000; 2000US-0179065P.  
XX 04-FEB-2000; 2000US-0180628P.  
XX 28-JUN-2000; 2000US-0214886P.  
XX 07-JUL-2000; 2000US-0216647P.  
XX 07-JUL-2000; 2000US-0216880P.  
XX 11-JUL-2000; 2000US-0217487P.  
XX 11-JUL-2000; 2000US-0217496P.  
XX 14-JUL-2000; 2000US-0218290P.  
XX 26-JUL-2000; 2000US-0220963P.  
XX 26-JUL-2000; 2000US-0220964P.  
XX 14-AUG-2000; 2000US-0224518P.  
XX 14-AUG-2000; 2000US-0224519P.  
XX 14-AUG-2000; 2000US-0225267P.  
XX 14-AUG-2000; 2000US-0225268P.  
XX 14-AUG-2000; 2000US-0225270P.  
XX 14-AUG-2000; 2000US-0225447P.  
XX 14-AUG-2000; 2000US-0225757P.  
XX 14-AUG-2000; 2000US-0225758P.  
XX 22-AUG-2000; 2000US-0226868P.  
XX 30-AUG-2000; 2000US-0228924P.  
XX 01-SEP-2000; 2000US-0228287P.  
XX 01-SEP-2000; 2000US-0228343P.  
XX 01-SEP-2000; 2000US-0229344P.  
XX 01-SEP-2000; 2000US-0229345P.  
XX 05-SEP-2000; 2000US-0229509P.  
XX 05-SEP-2000; 2000US-0229513P.  
XX 08-SEP-2000; 2000US-0231413P.  
XX 21-SEP-2000; 2000US-0234223P.  
XX 21-SEP-2000; 2000US-0234274P.  
XX 25-SEP-2000; 2000US-0234977P.  
XX 27-SEP-2000; 2000US-0235834P.  
XX 29-SEP-2000; 2000US-0236327P.  
XX 29-SEP-2000; 2000US-0236377P.  
XX 29-SEP-2000; 2000US-0236386P.  
XX 29-SEP-2000; 2000US-0236389P.  
XX 29-SEP-2000; 2000US-0236370P.  
XX 02-OCT-2000; 2000US-0236802P.  
XX 02-OCT-2000; 2000US-0237037P.  
XX 02-OCT-2000; 2000US-0237038P.  
XX 02-OCT-2000; 2000US-0237039P.  
XX 02-OCT-2000; 2000US-0237040P.  
XX 13-OCT-2000; 2000US-0239335P.  
XX 20-OCT-2000; 2000US-0240960P.  
XX 20-OCT-2000; 2000US-0241785P.  
XX 20-OCT-2000; 2000US-0241809P.  
XX 01-NOV-2000; 2000US-0244617P.  
XX 17-NOV-2000; 2000US-0249299P.  
XX 08-DEC-2000; 2000US-0251856P.  
XX 08-DEC-2000; 2000US-0251868P.

PR 08-DEC-2000; 2000US-0251869P.  
XX  
XX (ROSE/) ROSEN C A.  
XX (RUBE/) ROSEN S M.  
XX (BARA/) BARASH S C.  
XX  
XX Rosen CA, Ruben SM, Barash SC;  
XX WPI, 2003-128199/12.  
XX  
XX Isolated nucleic acid molecules encoding musculoskeletal system  
XX associated polypeptides, useful for detecting disorders, e.g. cancer.  
XX  
XX  
XX Dielosure; SEQ ID NO 2623; 321pp; English.

CC The invention describes an isolated nucleic acid molecule comprising a  
CC sequence encoding musculoskeletal system associated polypeptides useful  
CC for detecting disorders, e.g., cancer or cancer metastases, in animals or  
CC humans. The nucleic acid: stimulates re-vascularisation of ischemic  
CC tissues associated with conditions such as thrombosis, arteriosclerosis,  
CC and other cardiovascular conditions; treats wounds due to injuries,  
CC burns, post-operative tissue repair, and ulcers; stimulates angiogenesis  
CC and limb regeneration; stimulates neuronal growth; can treat and prevent  
CC neuronal damage occurring in certain disorders or neurodegenerative  
CC conditions, such as, Alzheimer's disease, Parkinson's disease, and AIDS-  
CC related complex; stimulates chondrocyte growth, thus they can be used to  
CC enhance bone and periodontal regeneration and aid in tissue transports or  
CC bone grafts; prevents skin aging due to sunburn by stimulating  
CC keratinocyte growth; prevents hair loss, since FGF family members  
CC activate hair-forming cells and promotes melanocyte growth; stimulates  
CC growth and differentiation of hematopoietic cells and bone marrow cells  
CC when used in combination with other cytokines; maintains organs before  
CC transplantation or for supporting cell culture of primary tissues;  
CC induces tissue of mesodermal origin to differentiate in early embryos;  
CC increases or decreases the differentiation or proliferation of embryonic  
CC stem cells, besides, hematopoietic lineage; modulates mammalian  
CC characteristics, such as, body height, weight, hair colour, eye colour,  
CC skin, percentage of adipose tissue, pigmentation, size, and shape (e.g.,  
CC cosmetic surgery); modulates mammalian metabolism; changes mammal's metal  
CC state or physical state by influencing biorhythms, cardiac rhythm,  
CC depression, tendency for violence, tolerance for pain, reproductive  
CC capabilities, hormonal or endocrine levels, appetite, libido, memory, or  
CC stress; increases or decreases storage capabilities, fat content, lipid,  
CC protein, carbohydrate, vitamins, minerals, cofactors or other nutritional  
CC components. This sequence encodes a novel human musculoskeletal system  
CC antigen. Note: The sequence data for this patent did not form part of the  
CC printed specification, but was obtained in electronic format directly  
CC from the US patent office at  
CC ftp.segdata.uspro.gov/sequence.html?DocID=20020147140  
XX  
XX  
XX Sequence 32193 BP; 10182 A; 6701 C; 6066 G; 9244 T; 0 U; 0 Other;  
SQ

Query Match 1.6%; Score 50; DB 8; Length 32193;  
Best Local Similarity 100.0%; Pred. No. 1,3e-12;  
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3073 AGATTGCGCACTGCACTCCAGCTGCGCAAGAGCAAGCACTGCTCTC 3122  
Db 28855 AGATTGCGCACTGCACTCCAGCTGCGCAAGAGCAAGCAAGCACTGCTCTC 28806  
|||

RESULT 55  
ADG62943/C  
ID ADG62943 standard; DNA; 32193 BP.  
XX  
XX ADG62943;  
XX  
XX 11-MAR-2004 (first entry)  
XX  
XX Genomic DNA encoding human NOVX protein seg id 37.  
XX  
XX neuroprotective; nootropic; respiratory; cardiovascular;  
XX gastrointestinal; antiparkinsonian; immunosuppressive; dermatological;

KM antiinflammatory; antineumatic; antiarthritic; antithyroid; antinaemic;  
KM antidiabetic; hepatocytropic; antiaesthetic; antiallergic; nephrotoxic;  
KM antiarteriosclerotic; cardiant; anti-HIV; virucide; antibacterial;  
KM fungicide; gynaecological; cytosstatic; gene therapy; neural disorder;  
KM immune system disorder; muscular disorder; reproductive disorder;  
KM gastrointestinal disorder; pulmonary disorder; cardiovascular disorder;  
KM renal disorder; proliferative disorder; cancer;  
KM systemic lupus erythematosus; rheumatoid arthritis; multiple sclerosis;  
KM thyroiditis; anaemia; Grave's disease; diabetes; hepatitis; aschma;  
KM allergy; nephritis; Parkinson's disease; Alzheimer's disease;  
KM atherosclerosis; myocardial infarction; AIDS; infection; human; gene; ss;  
NOVX.  
XX  
XX Homo sapiens.  
XX  
XX US2003207285-A1.  
XX  
XX PD 06-NOV-2003.  
XX  
XX PF 12-AUG-2002; 2002US-00216464.  
XX  
XX 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 14-JUL-2000; 2000US-0217496P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 14-AUG-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225266P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226868P.  
PR 22-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0228927P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230437P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232080P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 12-SEP-2000; 2000US-0231968P.

PR 14-SEP-2000; 2000US-0232397P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 26-SEP-2000; 2000US-0235484P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235836P.  
PR 29-SEP-2000; 2000US-0236337P.  
PR 29-SEP-2000; 2000US-0236367P.  
PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 02-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239935P.  
PR 13-OCT-2000; 2000US-0239937P.  
PR 20-OCT-2000; 2000US-0240960P.  
PR 20-OCT-2000; 2000US-0241231P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241826P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0246474P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249246P.  
PR 17-NOV-2000; 2000US-0249247P.  
PR 17-NOV-2000; 2000US-0249299P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250391P.

PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0255719P.  
PR 06-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251868P.  
PR 08-DEC-2000; 2000US-0251869P.  
PR 08-DEC-2000; 2000US-0251989P.  
PR 08-DEC-2000; 2000US-0251990P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0259678P.  
PR 17-JAN-2001; 2001US-00764883.  
XX  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX  
XX Rosen CA, Ruben SM, Barash SC;  
XX WPI; 2003-901052/82.  
XX  
XX New polypeptides and nucleic acid molecules for diagnosing, preventing or  
PT treating diseases associated with aberrant expression or activity of the  
PT polypeptide, e.g. cancer, asthma, AIDS, Parkinson's disease or diabetes.  
XX  
XX Disclosure; SEQ ID NO 37; 194pp; English.  
XX  
XX The invention describes an isolated nucleic acid molecule (1) encoding a  
CC protein comprising a sequence that is at least 95% identical to: a  
CC polynucleotide fragment of any of the nucleotide sequences listed in the  
CC specification, or of the cDNA sequences listed in the specification,  
CC which is hybridizable to the nucleotide sequences; a polynucleotide  
CC encoding a polypeptide or a polypeptide fragment, domain or epitope of  
CC any of the amino acid sequences listed in the specification, or a  
CC polypeptide or a polypeptide fragment, domain or epitope encoded by the  
CC cDNA sequence mentioned above; a polynucleotide which is an (allelic)  
CC variant of the nucleotide sequences listed in the specification; a  
CC polynucleotide which encodes a species homologue of the above amino acid  
CC sequences; or a polynucleotide capable of hybridizing under stringent  
CC conditions to any of the above polynucleotides, where the polynucleotide  
CC does not hybridize under stringent conditions to a nucleic acid molecule  
CC having a nucleotide sequence of only A or T residues. The nucleic acid  
CC molecule and polypeptide are useful in diagnosing, preventing, prognosing  
CC or treating diseases or disorders associated with aberrant expression  
CC and/or activity of the above polypeptide, such as neural disorders,  
CC immune system disorders, muscular disorders, reproductive disorders,  
CC  
Query Match 1.6%; Score 50; DB 10; Length 32193;  
Best Local Similarity 100.0%; Pred. No. 1.3e-12;  
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 3073 AGATTGTGCACTGCATCTCCAGCTGGGCAACAGCAAGACTCTGTCTC 3122  
Db 28855 AGATTGTGCACTGCATCTCCAGCTGGGCAACAGCAAGACTCTGTCTC 28806  
RESULT 56  
ADJ29996/C  
ID ADJ29996 standard; DNA; 32193 BP.  
XX  
XX ADJ29996;  
XX  
XX 20-MAY-2004 (first entry)  
XX  
XX Human musculoskeletal system-associated genomic DNA - SEQ ID 2673.  
XX  
XX musculoskeletal system; cytosolic; osteopathic; cancer; osteoporosis;  
KW gene therapy; vaccine; human; ds.  
XX  
XX Homo sapiens.  
OS  
XX US2004009488-A1.  
XX  
XX 15-JAN-2004.  
XX  
XX

PF 13-SEP-2002; 2002US-00242515.  
XX  
XX 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190075P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0214886P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225266P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226682P.  
PR 23-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230437P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232080P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 12-SEP-2000; 2000US-0231968P.  
PR 14-SEP-2000; 2000US-0232397P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 26-SEP-2000; 2000US-0235484P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235836P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236367P.  
PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236369P.

```
PR 29-SEP-2000; 2000US-0236370P.
PR 02-OCT-2000; 2000US-0236802P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239935P.
PR 13-OCT-2000; 2000US-0239937P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241809P.
PR 01-NOV-2000; 2000US-0244617P.
PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.
PR 08-NOV-2000; 2000US-0246527P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249244P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249246P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249299P.
PR 01-DEC-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251855P.
PR 08-DEC-2000; 2000US-0251866P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0256678P.
PR 17-JAN-2001; 2001US-00764877.
PA (HUMA-) HUMAN GENOME SCI INC.
XX
XX PI Rosen CA, Ruben SM, Barash SC;
XX WPI; 2004-090458/09.
XX
```

---

```
PT New nucleic acid molecule, useful for preparing a medicament for
PT preventing, treating or ameliorating a medical condition e.g., cancer of
PT musculoskeletal tissues or osteoporosis.
PS
XX Disclosure; SEQ ID NO 2623; 289pp; English.
XX
CC The invention relates to a novel isolated musculoskeletal system-
CC associated nucleic acid molecule. The nucleic acid of the invention
CC demonstrates cytoskeletal and osteopathic activities and may be useful for
CC preparing a medicament for preventing, treating or ameliorating a medical
CC condition such as cancer of the musculoskeletal tissues or osteoporosis,
CC possibly via gene therapy or vaccine production. The current sequence is
CC that of the human musculoskeletal system-associated genomic DNA of the
CC invention. The current sequence is not shown within the specification per
CC se but is available on the USPTO web-site
CC http://seqdata.uspto.gov/sequence.html?DocID=20040009488.
XX
SQ Sequence 32193 BP; 10182 A; 6701 C; 6066 G; 9244 T; 0 U; 0 Other;
Query Match 1.6%; Score 50; DB 12; Length 32193;
Best Local Similarity 100.0%; Pred. No. 1.3e-12;
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3073 AGATTGCGCAGCTGCACCTCCAGCTGGGCAACAGCAAGCAACTCTGCTC 3122
DB 2885 AGATTGCGCAGCTGCACCTCCAGCTGGGCAACAGCAAGCAACTCTGCTC 28806
RESULT 57
AAS30113/c
ID AAS30113 standard; DNA; 32221 BP.
XX
AC AAS30113;
XX
DT 21-NOV-2001 (first entry)
XX
DE Human lung antigen genomic DNA #183.
XX
KW Lung antigen protein; human; mouse; rabbit; goat; horse; cat; dog;
KW chicken; sheep; immunosuppressive; antitachytic; vasotropic;
KW antitumour; antiproliferative; cytostatic; cardiant; neuroprotective;
KW cerebroprotective; nootropic; antibacterial; virucide; fungicide; cancer;
KW ophtalmological; vulnarity; gene therapy; autoimmune disease; neoplasm;
KW hyperproliferative disorder; breast; liver; cardiovascular disorder; ds;
KW cerebrovascular disorder; nervous system disorder; bacterial infection;
KW fungal infection; viral infection; ocular disorder; endocrine disorder;
KW gastrointestinal disorder; renal disorder; respiratory disorder;
KW wound healing; skin aging; organ transplantation; food preservative;
KW tissue regeneration; anti-infertility; food additive.
XX
OS Homo sapiens.
XX
PN WO200155303-A2.
XX
PD 02-AUG-2001.
XX
PF 17-JAN-2001; 2001WO-US001301.
XX
PR 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 16-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205155P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
```

PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225266P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-022547P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-022679P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-022668P.  
PR 22-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230437P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232080P.  
PR 12-SEP-2000; 2000US-0231968P.  
PR 14-SEP-2000; 2000US-0232397P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 26-SEP-2000; 2000US-0235484P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235836P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0236802P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 02-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239335P.  
PR 13-OCT-2000; 2000US-0239337P.  
PR 20-OCT-2000; 2000US-0240960P.  
PR 20-OCT-2000; 2000US-0241221P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241826P.  
PR 01-NOV-2000; 2000US-0244617P.

PR 08-NOV-2000; 2000US-0246474P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249264P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249299P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250191P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0256719P.  
PR 06-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251868P.  
PR 08-DEC-2000; 2000US-0251869P.  
PR 08-DEC-2000; 2000US-0251989P.  
PR 08-DEC-2000; 2000US-0251990P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0259678P.  
  
(HUMA-) HUMAN GENOME SCT INC.  
XX  
XX  
PI Rosen CA, Barash SC, Ruben SM;  
XX  
XX WPI, 2001-457723/49.  
XX  
PT Isolated polypeptide for treating, preventing and/ or prognosing  
PT respiratory disorders related to the lung including lung cancers and also  
XX for testing and detection e.g. diagnosis.  
XX  
PS Claim 1; SEQ ID NO 377; 507bp; English.  
XX  
XX  
CC Sequences AAS29931-AAS30164 represent genomic DNA molecules, which encode  
CC the lung antigen polypeptides of the invention. Lung antigen polypeptides  
CC and their associated polymucosides are useful in the diagnosis,  
CC treatment and prevention of various types of disorders in e.g. humans,  
CC mice, rabbits, goats, horses, cats, dogs, chickens or sheep. A  
CC pathological condition can be determined by detecting the presence or  
CC absence of a mutation in a lung antigen polymucoside. The treatable  
CC disorders include autoimmune diseases such as rheumatoid arthritis,  
CC hyperproliferative disorders such as neoplasms of the breast or liver,  
CC cardiovascular disorders such as cardiac arrest, cerebrovascular  
CC disorders such as cerebral ischaemia, nervous system disorders such as  
CC Alzheimer's disease, infections caused by bacteria, viruses and fungi,

CC ocular disorders such as corneal infection, endocrine disorders such as  
CC premature labour and infertility, gastrointestinal disorders such as  
CC Crohn's disease, renal disorders such as glomerulonephritis and  
CC respiratory disorders such as asthma and pleurisy. The polypeptides can  
CC also be used to aid wound healing, to prevent skin aging due to sunburn,  
CC to maintain organs before transplantation, to regenerate tissues and in  
CC chemocaxis. The polypeptides can also be used as a food additive or  
CC preservative to increase or decrease storage capabilities. Note: The  
CC sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences

Query Match 1.6%; Score 50; DB 5; Length 32221;  
Best Local Similarity 100.0%; Pred. No. 1.3e-12;

Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3073 AGATTGGCCATGCTGCTCCAGCTGGGCAACAGACAAAGCTGTCTC 3122  
Db 12548 AGATTGGCCATGCTGCTCCAGCTGGGCAACAGACAAAGCTGTCTC 12499

## RESULT 58

ADB33450/C  
ID ADB33450 standard; DNA; 32221 BP.

AC ADB33450;

DT 04-DEC-2003 (first entry)

DB Human novel lung related polypeptide DNA SEQ ID NO 377.

XX gene therapy; lung antigen; neoplasia; acute myelogenous leukaemia;  
KM adenocarcinoma; respiratory disorder; chronic rhinitis; sinusitis;  
KM immunodeficiency; X-linked agammaglobulinemia;  
KM X-linked infantile agammaglobulinemia; inflammatory disorder;  
KM adrenailitis; alveolitis; immune complex disease; serum sickness;  
KM polyarteritis nodosa; bleeding disorder; thrombocytopenia;  
KM Von Willebrand's disease; acquired platelet dysfunction; kidney failure;  
KM multiple myeloma; macrophage related disorder; Gaucher's disease;  
KM Neimann-Pick disease; tumour; colon cancer; pancreatic cancer;  
KM renal disorder; nephritis; bone disorder; Albers-Schonberg disease;  
KM bowleg; muscle disorder; Becker's muscular dystrophy;  
KM Duchenne's muscular dystrophy; nervous disorder; ischaemic lesion;  
KM cruminate lesion; endocrine disorder; Cushing's syndrome;  
KM corticosteroid deficiency; gastrointestinal disorder; dysphagia;  
KM gastric reflux; human; ds.

XX Homo sapiens.

OS US2003054368-A1.

PN 20-MAR-2003.

PD 22-FEB-2002; 2002US-00079854.

PF 31-JAN-2000; 2000US-0179065P.

PR 04-FEB-2000; 2000US-0180628P.

PR 24-FEB-2000; 2000US-0184664P.

PR 02-MAR-2000; 2000US-0186350P.

PR 16-MAR-2000; 2000US-0189874P.

PR 17-MAR-2000; 2000US-0190076P.

PR 18-APR-2000; 2000US-0198123P.

PR 19-MAY-2000; 2000US-0205515P.

PR 07-JUN-2000; 2000US-0209467P.

PR 28-JUN-2000; 2000US-0214886P.

PR 30-JUN-2000; 2000US-0215135P.

PR 07-JUL-2000; 2000US-0216647P.

PR 07-JUL-2000; 2000US-0216880P.

PR 11-JUL-2000; 2000US-0217487P.

PR 11-JUL-2000; 2000US-0217496P.

PR 14-JUL-2000; 2000US-0218290P.

PR 26-JUL-2000; 2000US-0220963P.

PR 26-JUL-2000; 2000US-0220964P.

PR 14-AUG-2000; 2000US-0224518P.

PR 14-AUG-2000; 2000US-0224519P.

PR 14-AUG-2000; 2000US-0225213P.

PR 14-AUG-2000; 2000US-0225214P.

PR 14-AUG-2000; 2000US-0225266P.

PR 14-AUG-2000; 2000US-0225267P.

PR 14-AUG-2000; 2000US-0225268P.

PR 14-AUG-2000; 2000US-0225270P.

PR 14-AUG-2000; 2000US-0225447P.

PR 14-AUG-2000; 2000US-0225757P.

PR 14-AUG-2000; 2000US-0225758P.

PR 14-AUG-2000; 2000US-0225759P.

PR 14-AUG-2000; 2000US-0226279P.

PR 22-AUG-2000; 2000US-0226681P.

PR 22-AUG-2000; 2000US-0226686P.

PR 22-AUG-2000; 2000US-0227182P.

PR 23-AUG-2000; 2000US-0227009P.

PR 30-AUG-2000; 2000US-0228924P.

PR 01-SEP-2000; 2000US-0229287P.

PR 01-SEP-2000; 2000US-0229343P.

PR 01-SEP-2000; 2000US-0229344P.

PR 01-SEP-2000; 2000US-0229345P.

PR 05-SEP-2000; 2000US-0229509P.

PR 05-SEP-2000; 2000US-0229513P.

PR 06-SEP-2000; 2000US-0230437P.

PR 06-SEP-2000; 2000US-0230438P.

PR 08-SEP-2000; 2000US-0231242P.

PR 08-SEP-2000; 2000US-0231243P.

PR 08-SEP-2000; 2000US-0231244P.

PR 08-SEP-2000; 2000US-0231413P.

PR 08-SEP-2000; 2000US-0231414P.

PR 08-SEP-2000; 2000US-0232080P.

PR 08-SEP-2000; 2000US-0232081P.

PR 12-SEP-2000; 2000US-0231968P.

PR 14-SEP-2000; 2000US-0232397P.

PR 14-SEP-2000; 2000US-0232398P.

PR 14-SEP-2000; 2000US-0232399P.

PR 14-SEP-2000; 2000US-0232400P.

PR 14-SEP-2000; 2000US-0232401P.

PR 14-SEP-2000; 2000US-0233063P.

PR 14-SEP-2000; 2000US-0233064P.

PR 14-SEP-2000; 2000US-0233065P.

PR 21-SEP-2000; 2000US-0234223P.

PR 21-SEP-2000; 2000US-0234274P.

PR 25-SEP-2000; 2000US-0234997P.

PR 25-SEP-2000; 2000US-0234998P.

PR 26-SEP-2000; 2000US-0235484P.

PR 27-SEP-2000; 2000US-0235834P.

PR 27-SEP-2000; 2000US-0235835P.

PR 29-SEP-2000; 2000US-0236377P.

PR 29-SEP-2000; 2000US-0236378P.

PR 29-SEP-2000; 2000US-0236379P.

PR 29-SEP-2000; 2000US-0236380P.

PR 29-SEP-2000; 2000US-0236381P.

PR 29-SEP-2000; 2000US-0236382P.

PR 29-SEP-2000; 2000US-0236383P.

PR 02-OCT-2000; 2000US-0237037P.

PR 02-OCT-2000; 2000US-0237038P.

PR 02-OCT-2000; 2000US-0237039P.

PR 02-OCT-2000; 2000US-0237040P.

PR 13-OCT-2000; 2000US-0239935P.

PR 13-OCT-2000; 2000US-0239937P.

PR 20-OCT-2000; 2000US-0240960P.

PR 20-OCT-2000; 2000US-0241221P.

PR 20-OCT-2000; 2000US-0241785P.

PR 20-OCT-2000; 2000US-0241786P.

PR 20-OCT-2000; 2000US-0241787P.

PR 20-OCT-2000; 2000US-0241808P.

PR 20-OCT-2000; 2000US-0241809P.

PR 20-OCT-2000; 2000US-0241826P.

PR 01-NOV-2000; 2000US-0244617P.

PR 08-NOV-2000; 2000US-0246474P.

PR 08-NOV-2000; 2000US-0246475P.

PR 08-NOV-2000; 2000US-0246476P.



PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249264P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249299P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0256719P.  
PR 06-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251868P.  
PR 08-DEC-2000; 2000US-0251869P.  
PR 08-DEC-2000; 2000US-0251989P.  
PR 08-DEC-2000; 2000US-0251990P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0253678P.  
PR 17-JAN-2001; 2001US-00764878.  
XX  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX  
XX  
XX Rosen CA, Ruben SM, Barash SC;  
XX  
XX WPI; 2003-695900/66.  
XX  
XX Novel isolated lung antigen polypeptides useful for treating, preventing,  
XX  
XX diagnosing acute myelogenous leukemias, adenocarcinoma, thrombocytopenia,  
XX  
XX Von Willebrand's disease.  
XX  
XX  
XX Disclosure; SEQ ID NO 377; 178bp; English.  
XX  
XX  
XX The invention relates to an isolated lung antigen polypeptide sequence or  
XX  
XX encoded sequence in a cDNA clone. The polypeptide and its polynucleotide  
XX  
XX are useful for treating, preventing, diagnosing and/or prognosing  
XX  
XX diseases and/or disorders such as pathological cell proliferative  
XX  
XX neoplasias e.g. acute myelogenous leukaemia, adenocarcinoma; respiratory  
XX  
XX disorders such as chronic rhinitis, sinusitis; immunodeficiencies such as  
XX  
XX X-linked agammaglobulinemia, X-linked infantile agammaglobulinemia;  
XX  
XX inflammatory disorders such as adrenalitis, alveolitis; immune complex  
XX  
XX diseases such as serum sickness, polyarteritis nodosa; bleeding disorders  
XX  
XX such as thrombocytopenia, Von Willebrand's disease; acquired platelet  
XX  
XX dysfunction such as kidney failure, multiple myeloma; disorders  
XX  
XX associated with macrophage numbers and/or macrophage function such as  
XX  
XX Gaucher's disease, Niemann-Pick disease; tumours such as colon cancer,  
XX  
XX pancreatic cancer; renal disorders such as kidney failure, nephritis;

CC bone disorders such as Albers-Schonberg disease, bowlegs; muscle  
CC disorders such as Becker's muscular dystrophy, Duchenne's muscular  
CC dystrophy; nervous disorders such as ischaemic lesions, traumatic lesions  
CC ; endocrine disorders such as Cushing's syndrome, corticosteroid  
CC  
CC  
Query Match 1.6%; Score 50; DB 10; Length 32221;  
Best Local Similarity 100.0%; Pred. No. 1.3e-12;  
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 3073 AGATTGCGCACTGCATCCAGCTGGGCAACAGACAACTGTCTC 3122  
DB 12548 AGATTGCGCACTGCATCCAGCTGGGCAACAGACAACTGTCTC 12499  
RESULT 59  
ABK22783  
ID ABK22783 standard; cDNA; 36305 BP.  
XX  
XX ABK22783;  
AC  
XX  
XX 09-APR-2002 (first entry)  
DT  
XX  
XX Human high bone mass (HBM) polynucleotide clone #6.  
DE  
XX  
XX Human; mouse; Zmax1; HBM; high bone mass gene; lipid regulation; stroke;  
XX  
XX lipid-associated condition; arteriosclerosis; cardiovascular disease; as;  
XX  
XX osteoporosis; atherosclerosis; diabetic atherosclerosis; plaque build-up;  
XX  
XX neurovascular condition; wound healing; gene therapy; PCR primer; probe;  
XX  
XX bone development disorder; antiarteriosclerotic; cardiovascular;  
XX  
XX osteophtic; cerebroprotective.  
OS  
XX  
XX Homo sapiens.  
XX  
XX WO200192891-A2.  
XX  
XX 06-DEC-2001.  
XX  
XX 25-MAY-2001; 2001WO-US016946.  
XX  
XX 26-MAY-2000; 2000US-00578900.  
XX  
XX (GENO-) GENOME THERAPEUTICS CORP.  
XX  
XX (UYCR-) UNIV CREIGHTON SCHOOL MEDICINE.  
XX  
XX Carulli JP, Little RD, Recker RR, Johnson MD;  
XX  
XX WPI; 2002-097784/13.  
XX  
XX  
XX Identifying molecules involved in lipid regulation, useful for  
XX  
XX diagnosing, treating or preventing e.g., arteriosclerosis, comprises  
XX  
XX identifying a molecule that binds to high bone mass gene or its  
XX  
XX corresponding wild type gene.  
XX  
XX  
XX Example 2; Page 323-350; 409pp; English.  
XX  
XX  
XX The invention relates to a method for identifying a molecule involved in  
XX  
XX lipid regulation comprising identifying a molecule that binds to or  
XX  
XX inhibits binding of a molecule to high bone mass (HBM) or its wild type  
XX  
XX gene, Zmax1. Compounds identified by the method are useful for treating,  
XX  
XX diagnosing, preventing or screening for normal and abnormal lipid-  
XX  
XX associated conditions, including arteriosclerosis, cardiovascular  
XX  
XX disease, stroke, and osteoporosis. The compounds may also be used in the  
XX  
XX treatment or prevention of diabetic atherosclerosis, neurovascular  
XX  
XX conditions caused by plaque build-up, poor circulation due to plaque  
XX  
XX build-up and associated poor wound healing. The methods may be used in  
XX  
XX gene therapy, pharmaceutical development, and diagnostic assays for bone  
XX  
XX development disorders. Molecules identified by comparison of Zmax1 and  
XX  
XX HBM systems can be used as surrogate markers in pharmaceutical  
XX  
XX development, in diagnosis of human or animal bone diseases, and in the  
XX  
XX treatment of bone diseases. Sequences ABK22786-ABK23411 represent cDNA  
XX  
XX molecules encoding human Zmax1 and HBM, and PCR primers, probes, linkers  
XX  
XX and adapters of the invention

```
SQ Sequence 36305 BP; 7938 A; 9658 C; 10106 G; 8602 T; 0 U; 1 Other;
Query Match 1.6%; Score 50; DB 6; Length 36305;
Best Local Similarity 100.0%; Pred. No. 1.3e-12;
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 3073 AGATTGTGCACTGCACTCCAGCCTGGGCAACAGAGCAAGACTGTGCTC 3122
Db 5112 AGATTGTGCACTGCACTCCAGCCTGGGCAACAGAGCAAGACTGTGCTC 5161

RESULT 60
ACN44230/c
ID ACN44230 standard; DNA; 66973 BP.
XX
AC ACN44230;
XX
XX 18-NOV-2004 (first entry)
XX
XX Human genomic sequence hCG21559.
XX
XX Cytostatic; carcinoma; lymphoma; cancer; human; gene; ss.
XX
XX Homo sapiens.
XX
XX MO2003073826-A2.
XX
XX 12-SEP-2003.
XX
XX 28-FEB-2003; 2003WO-US006235.
XX
XX 01-MAR-2002; 2002US-00087192.
XX
XX (SAGR-) SAGRES DISCOVERY.
XX
XX Morris DW;
XX
XX WPI; 2003-328604/31.
XX
XX Recombinant nucleic acid useful for diagnosis and treatment of carcinoma
XX comprises a nucleotide sequence.
XX
XX Claim 1; SEQ ID NO 574; Opp; English.
XX
XX The present invention relates to novel DNA and protein sequences which
XX are associated with carcinomas. The sequences are useful for: (i) for
XX screening drug candidates; (ii) for screening of bioactive agent capable
XX of binding to Carcinoma Associated Protein (CAP); (iii) for screening of
XX a bioactive agent capable of modulating the activity of CAP; (iv) for
XX evaluating the effect of a candidate carcinoma drug; (v) for diagnosing
XX carcinoma; (vi) for inhibiting the activity of CAP; (vi) for treating
XX carcinoma; (viii) for neutralizing the effect of CAP; (ix) as a biochip;
XX (x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for
XX determining Carcinoma Associated (CA) gene copy number. In addition, the
XX CA genes are useful as DNA vaccines and the CAP are useful as markers of
XX carcinoma including lymphoma. The present sequence is one such CA coding
XX sequence. Note: This patent is an equivalent to basic patent
XX US2002182586A1, for which no sequence data was published
XX
XX Sequence 66973 BP; 17853 A; 15429 C; 15874 G; 17537 T; 0 U; 280 Other;
SQ
Query Match 1.6%; Score 50; DB 11; Length 66973;
Best Local Similarity 100.0%; Pred. No. 1.3e-12;
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 3073 AGATTGTGCACTGCACTCCAGCCTGGGCAACAGAGCAAGACTGTGCTC 3122
Db 29006 AGATTGTGCACTGCACTCCAGCCTGGGCAACAGAGCAAGACTGTGCTC 28957

RESULT 61
ACN44786
ID ACN44786 standard; DNA; 156843 BP.
XX
XX ACN44786;
XX
XX 18-NOV-2004 (first entry)
XX
XX Human genomic sequence hCG27192.
XX
XX Cytostatic; carcinoma; lymphoma; cancer; human; gene; ss.
XX
XX Homo sapiens.
XX
XX MO2003073826-A2.
XX
XX 12-SEP-2003.
XX
XX 28-FEB-2003; 2003WO-US006235.
XX
XX 01-MAR-2002; 2002US-00087192.
XX
XX (SAGR-) SAGRES DISCOVERY.
XX
XX Morris DW;
XX
XX WPI; 2003-328604/31.
XX
XX Recombinant nucleic acid useful for diagnosis and treatment of carcinoma
XX comprises a nucleotide sequence.
XX
XX Claim 1; SEQ ID NO 1408; Opp; English.
XX
XX The present invention relates to novel DNA and protein sequences which
XX are associated with carcinomas. The sequences are useful for: (i) for
XX screening drug candidates; (ii) for screening of bioactive agent capable
XX of binding to Carcinoma Associated Protein (CAP); (iii) for screening of
XX a bioactive agent capable of modulating the activity of CAP; (iv) for
XX evaluating the effect of a candidate carcinoma drug; (v) for diagnosing
XX carcinoma; (vi) for inhibiting the activity of CAP; (vi) for treating
XX carcinoma; (viii) for neutralizing the effect of CAP; (ix) as a biochip;
XX (x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for
XX determining Carcinoma Associated (CA) gene copy number. In addition, the
XX CA genes are useful as DNA vaccines and the CAP are useful as markers of
XX carcinoma including lymphoma. The present sequence is one such CA coding
XX sequence. Note: This patent is an equivalent to basic patent
XX US2002182586A1, for which no sequence data was published
XX
XX Sequence 156843 BP; 33001 A; 41006 C; 43823 G; 38715 T; 0 U; 298 Other;
SQ
Query Match 1.6%; Score 50; DB 11; Length 156843;
Best Local Similarity 100.0%; Pred. No. 1.2e-12;
Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 3073 AGATTGTGCACTGCACTCCAGCCTGGGCAACAGAGCAAGACTGTGCTC 3122
Db 148232 AGATTGTGCACTGCACTCCAGCCTGGGCAACAGAGCAAGACTGTGCTC 148281

RESULT 62
ADP75188
ID ADP75188 standard; DNA; 276820 BP.
XX
XX ADP75188;
XX
XX 12-AUG-2004 (first entry)
XX
XX Human ADAMTS2 gene.
XX
XX Human; chromosome 5; de; gene; ADAM19; Endophilin 1; Endophilin 2; NRG2;
XX ADAMTS2; a disintegrin and metalloprotease; neuroregulin 2; SNP;
XX single nucleotide polymorphism;
XX a disintegrin and metalloprotease with thrombospondin type1 motif 2;
XX asthma; atopy; obesity; inflammatory bowel disease; respiratory disorder.
XX
XX Homo sapiens.
OS
```

XX	Key	location/Qualifiers	PT	variation	/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(7493,T)	FT	variation	replace(197776,T)
FT		/*tag= a	FT		/*tag= y
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(7542,C)	FT	variation	replace(198901,G)
FT		/*tag= b	FT		/*tag= z
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(7764,C)	FT	variation	replace(199161,A)
FT		/*tag= c	FT		/*tag= aa
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(7805,C)	FT	variation	replace(199176,C)
FT		/*tag= d	FT		/*tag= ab
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(143561,A)	FT	variation	replace(199313,C)
FT		/*tag= e	FT		/*tag= ac
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(143591,G)	FT	variation	replace(211213,A)
FT		/*tag= f	FT		/*tag= ad
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(143612,A)	FT	variation	replace(211241,C)
FT		/*tag= g	FT		/*tag= ae
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(143623,A)	FT	variation	replace(211462,T)
FT		/*tag= h	FT		/*tag= af
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(143638,A)	FT	variation	replace(213243,A)
FT		/*tag= i	FT		/*tag= ag
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(143676,A)	FT	variation	replace(213294,A)
FT		/*tag= j	FT		/*tag= ah
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(143748,T)	FT	variation	replace(213324,A)
FT		/*tag= k	FT		/*tag= ai
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(143815,A)	FT	variation	replace(213555,A)
FT		/*tag= l	FT		/*tag= aj
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(170091,T)	FT	variation	replace(215171,A)
FT		/*tag= m	FT		/*tag= ak
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(170183,T)	FT	variation	replace(215293,T)
FT		/*tag= n	FT		/*tag= al
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(170372,G)	FT	variation	replace(215294,A)
FT		/*tag= o	FT		/*tag= am
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(170373,A)	FT	variation	replace(215329,T)
FT		/*tag= p	FT		/*tag= an
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(192358,T)	FT	variation	replace(215462,A)
FT		/*tag= q	FT		/*tag= ao
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(196318,T)	FT	variation	replace(218885,C)
FT		/*tag= r	FT		/*tag= ap
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(196436,T)	FT	variation	replace(221154,C)
FT		/*tag= s	FT		/*tag= aq
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(196498,A)	FT	variation	replace(221189,G)
FT		/*tag= t	FT		/*tag= ar
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(197649,T)	FT	variation	replace(223199,A)
FT		/*tag= u	FT		/*tag= as
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(197655,T)	FT	variation	replace(223251,T)
FT		/*tag= v	FT		/*tag= at
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(197719,A)	FT	variation	replace(225111,T)
FT		/*tag= w	FT		/*tag= au
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(197746,T)	FT	variation	replace(225340,G)
FT		/*tag= x	FT		/*tag= av
FT		/standard_name= "Single nucleotide polymorphism"	FT		/standard_name= "Single nucleotide polymorphism"

```
FT variation replace(225397,A)
FT /*tag= aw
FT /standard_name= "Single nucleotide polymorphism"
FT replace(229644,T)
FT /*tag= ax
FT /standard_name= "Single nucleotide polymorphism"
FT replace(229782,G)
FT /*tag= ay
FT /standard_name= "Single nucleotide polymorphism"
FT replace(237134,T)
FT /*tag= az
FT /standard_name= "Single nucleotide polymorphism"
FT replace(237321,T)
FT /*tag= ba
FT /standard_name= "Single nucleotide polymorphism"
XX
XX WO2003031594-A2.
XX
XX 17-APR-2003.
XX
XX 11-OCT-2002; 2002WO-US032700.
XX
XX 11-OCT-2001; 2001US-0328424P.
XX
XX (GENO-) GENOME THERAPEUTICS CORP.
XX
XX Keith T, Little RD, Van Berdeewegh P, Dupuis J, Del Mastro RG,
XX Allen K;
XX
XX WPT; 2003-381712/36.
XX
XX New isolated nucleic acid or alternate splice variant, useful for
XX diagnosing and treating a disintegrin and metalloprotease (ADAM) or
XX interactor gene-associated disorder, e.g. asthma, atopy, obesity or
XX inflammatory bowel disease.
XX
XX Claim 2; SEQ ID NO 9; 338bp; English.
XX
XX The invention relates to an isolated nucleic acid or alternate splice
XX
XX Query Match 1.6%; Score 50; DB 11; Length 276820;
XX Best Local Similarity 100.0%; Pred. No. 1.2e-12;
XX Matches 50; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 3073 AGATTGCGCACTGCACTCCAGCCTGGGCAACAGCAAGACTGTCTC 3122
XX |||||||
XX 194263 AGATTGCGCACTGCACTCCAGCCTGGGCAACAGCAAGACTGTCTC 194312
XX
XX RESULT 63
XX AAK77204/C
XX ID AAK77204 standard; DNA; 95 BP.
XX
XX AAK77204;
XX
XX 07-NOV-2001 (first entry)
XX
XX Human immune/haematopoietic antigen genomic sequence SEQ ID NO:32016.
XX
XX Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
XX cytosolic; gene therapy; vaccine; metastasis; ds.
XX
XX Homo sapiens.
XX
XX WO200157182-A2.
XX
XX 09-AUG-2001.
XX
XX 17-JAN-2001; 2001WO-US001354.
XX
XX 31-JAN-2000; 2000US-0179065P.
XX 04-FEB-2000; 2000US-0180628P.
XX 24-FEB-2000; 2000US-0184664P.
XX
```

```
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0226688P.
PR 22-AUG-2000; 2000US-0227182P.
PR 23-AUG-2000; 2000US-0227100P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229282P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 08-SEP-2000; 2000US-0232081P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0232397P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234937P.
PR 25-SEP-2000; 2000US-0234938P.
PR 26-SEP-2000; 2000US-0235484P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235836P.
PR 29-SEP-2000; 2000US-0236327P.
PR 29-SEP-2000; 2000US-0236377P.
PR 29-SEP-2000; 2000US-0236388P.
PR 29-SEP-2000; 2000US-0236389P.
PR 29-SEP-2000; 2000US-0236370P.
PR 02-OCT-2000; 2000US-0236802P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
```

XX	02-OCT-2000;	2000US-023704ADP.
PR	13-OCT-2000;	2000US-0239335P.
PR	13-OCT-2000;	2000US-0239937P.
PR	20-OCT-2000;	2000US-0240960P.
PR	20-OCT-2000;	2000US-0241221P.
PR	20-OCT-2000;	2000US-0241785P.
PR	20-OCT-2000;	2000US-0241786P.
PR	20-OCT-2000;	2000US-0241787P.
PR	20-OCT-2000;	2000US-0241808P.
PR	20-OCT-2000;	2000US-0241809P.
PR	20-OCT-2000;	2000US-0241826P.
PR	01-NOV-2000;	2000US-0244617P.
PR	08-NOV-2000;	2000US-0246474P.
PR	08-NOV-2000;	2000US-0246475P.
PR	08-NOV-2000;	2000US-0246476P.
PR	08-NOV-2000;	2000US-0246477P.
PR	08-NOV-2000;	2000US-0246478P.
PR	08-NOV-2000;	2000US-0246523P.
PR	08-NOV-2000;	2000US-0246524P.
PR	08-NOV-2000;	2000US-0246525P.
PR	08-NOV-2000;	2000US-0246526P.
PR	08-NOV-2000;	2000US-0246527P.
PR	08-NOV-2000;	2000US-0246528P.
PR	08-NOV-2000;	2000US-0246532P.
PR	08-NOV-2000;	2000US-0246609P.
PR	08-NOV-2000;	2000US-0246610P.
PR	08-NOV-2000;	2000US-0246611P.
PR	08-NOV-2000;	2000US-0246613P.
PR	17-NOV-2000;	2000US-0249207P.
PR	17-NOV-2000;	2000US-0249208P.
PR	17-NOV-2000;	2000US-0249210P.
PR	17-NOV-2000;	2000US-0249211P.
PR	17-NOV-2000;	2000US-0249212P.
PR	17-NOV-2000;	2000US-0249213P.
PR	17-NOV-2000;	2000US-0249214P.
PR	17-NOV-2000;	2000US-0249215P.
PR	17-NOV-2000;	2000US-0249216P.
PR	17-NOV-2000;	2000US-0249217P.
PR	17-NOV-2000;	2000US-0249218P.
PR	17-NOV-2000;	2000US-0249244P.
PR	17-NOV-2000;	2000US-0249245P.
PR	17-NOV-2000;	2000US-0249264P.
PR	17-NOV-2000;	2000US-0249265P.
PR	17-NOV-2000;	2000US-0249297P.
PR	17-NOV-2000;	2000US-0249299P.
PR	17-NOV-2000;	2000US-0249300P.
PR	01-DEC-2000;	2000US-0250160P.
PR	01-DEC-2000;	2000US-0250391P.
PR	05-DEC-2000;	2000US-0251030P.
PR	05-DEC-2000;	2000US-0251988P.
PR	05-DEC-2000;	2000US-0256719P.
PR	06-DEC-2000;	2000US-0251479P.
PR	08-DEC-2000;	2000US-0251856P.
PR	08-DEC-2000;	2000US-0251868P.
PR	08-DEC-2000;	2000US-0251869P.
PR	08-DEC-2000;	2000US-0251989P.
PR	08-DEC-2000;	2000US-0251999P.
PR	11-DEC-2000;	2000US-0254097P.
PR	05-JAN-2001;	2001US-0259678P.
PA	(HUMA-) HUMAN GENOME SCI INC.	
PI	Rosen CA, Barash SC, Ruben SM;	
DR	WPI; 2001-483426/52.	
XX	Nucleic acids encoding human immune/hematopoietic antigen polypeptides,	
PT	useful for preventing, diagnosing and/or treating cancers and metastases	
XX	Disclosure; SEQ ID NO 32016; 3071pp + Sequence Listing; English.	
CC	AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)	

CC		amino acid sequences given in AAM82170 to AAM91921. (1) have cytoskeletal
CC		activity, and can be used in gene therapy and vaccine production. (1)
CC		proteins and polynucleotides may be used in the prevention, diagnosis and
CC		treatment of diseases associated with inappropriate (1) expression. For
CC		example, they may be used to treat disorders associated with decreased
CC		expression by rectifying mutations or deletions in a patient's genome
CC		that affect the activity of (1) by expressing inactive proteins or to
CC		supplement the patients own production of (1). Additionally, (1)
CC		polynucleotides may be used to produce the secreted (1), by inserting the
CC		nucleic acids into a host cell and culturing the cell to prevent.
CC		protein. (1) proteins and polynucleotides may be used to prevent.
CC		diagnose and treat immune/haematopoietic-related diseases, especially
CC		cancers and cancer metastases of haematopoietic-derived cells. AA66703
CC		to AA67694 represent human immune/haematopoietic antigen genomic
CC		sequences from the present invention. AA54942 to AA54950 and AAM82169
CC		represent sequences used in the exemplification of the present invention
XX		
SQ	Sequence 95 BP; 22 A; 14 C; 16 G; 43 T; 0 U; 0 Other;	
	Query Match	1.6%; Score 49; DB 4; Length 95;
	Best Local Similarity	100.0%; Pred. No. 4.7e-12;
	Matches 49; Conservative 0; Mismatches 0; Indels 0; Gaps 0	
OY	3073 AGATTGTGCCACTGCATCTCCAGCCTGGGCAACAGCAAACTCTGTCT 3121	
D6	90 AGATTGTGCCACTGCATCTCCAGCCTGGGCAACAGCAAACTCTGTCT 42	
RESULT 64		
AAKT7203/c		
ID	AAKT7203 standard; DNA; 95 BP.	
AC	AAKT7203;	
XX		
DT	07-NOV-2001 (first entry)	
XX		
DE	Human immune/haematopoietic antigen genomic sequence SEQ ID NO:32015.	
XX		
KW	Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;	
OS	Cytostatic; gene therapy; vaccine; metaatasts; ds.	
CS	Homo sapiens.	
XX		
PN	WO200157182-A2.	
PD		
XX	09-AUG-2001.	
PF	17-JAN-2001; 2001WO-US0001354.	
XX		
PR	31-JAN-2000; 2000US-0179065P.	
PR	04-FEB-2000; 2000US-0180628P.	
PR	24-FEB-2000; 2000US-0184664P.	
PR	02-MAR-2000; 2000US-0186350P.	
PR	16-MAR-2000; 2000US-0189874P.	
PR	17-MAR-2000; 2000US-0190076P.	
PR	18-APR-2000; 2000US-0198123P.	
PR	19-MAY-2000; 2000US-0200551P.	
PR	07-JUN-2000; 2000US-0209467P.	
PR	28-JUN-2000; 2000US-0214886P.	
PR	30-JUN-2000; 2000US-0215135P.	
PR	07-JUL-2000; 2000US-0216647P.	
PR	11-JUL-2000; 2000US-0217487P.	
PR	11-JUL-2000; 2000US-0217487P.	
PR	14-JUL-2000; 2000US-0217496P.	
PR	14-JUL-2000; 2000US-0218290P.	
PR	26-JUL-2000; 2000US-0220963P.	
PR	26-JUL-2000; 2000US-0220964P.	
PR	14-AUG-2000; 2000US-0224518P.	
PR	14-AUG-2000; 2000US-0224519P.	
PR	14-AUG-2000; 2000US-0225213P.	
PR	14-AUG-2000; 2000US-0225214P.	
PR	14-AUG-2000; 2000US-0225266P.	
PR	14-AUG-2000; 2000US-0225267P.	

PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230437P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232080P.  
PR 12-SEP-2000; 2000US-0231968P.  
PR 14-SEP-2000; 2000US-0232397P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 25-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 26-SEP-2000; 2000US-0234998P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235835P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236367P.  
PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0236802P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 02-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239353P.  
PR 13-OCT-2000; 2000US-0239371P.  
PR 20-OCT-2000; 2000US-0241221P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241826P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0244747P.  
PR 08-NOV-2000; 2000US-0244755P.  
PR 08-NOV-2000; 2000US-0244776P.  
PR 08-NOV-2000; 2000US-0244777P.  
PR 08-NOV-2000; 2000US-0244789P.  
PR 08-NOV-2000; 2000US-0245233P.  
PR 08-NOV-2000; 2000US-0245242P.  
PR 08-NOV-2000; 2000US-0245255P.  
PR 08-NOV-2000; 2000US-0245266P.

PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249287P.  
PR 17-NOV-2000; 2000US-0249287P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 06-DEC-2000; 2000US-0251719P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251865P.  
PR 08-DEC-2000; 2000US-0251989P.  
PR 08-DEC-2000; 2000US-0251990P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0259678P.  
  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX Rosen CA, Barash SC, Ruben SM;  
XX WPI; 2001-483426/52.  
XX  
XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,  
XX PT useful for preventing, diagnosing and/or treating cancers and metastasis.  
XX  
XX  
XX Disclosure; SEQ ID NO 32015; 3071bp + Sequence Listing; English.  
XX  
XX AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)  
XX amino acid sequences given in AAM82170 to AAM91921. (I) have cytotoxic  
XX activity, and can be used in gene therapy and vaccine production. (I)  
XX CC proteins and polynucleotides may be used in the prevention, diagnosis and  
XX CC treatment of diseases associated with inappropriate (I) expression. For  
XX CC example, they may be used to treat disorders associated with decreased  
XX CC expression by rectifying mutations or deletions in a patient's genome  
XX CC that affect the activity of (I) by expressing inactive proteins or to  
XX CC supplement the patient's own production of (I). Additionally, (I)  
XX CC polynucleotides may be used to produce the secreted (I), by inserting the  
XX CC nucleic acids into a host cell and culturing the cell to express the  
XX CC protein. (I) proteins and polynucleotides may be used to prevent,  
XX CC diagnose and treat immune/haematopoietic-related diseases, especially  
XX CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703  
XX CC to AAK87694 represent human immune/haematopoietic antigen genomic  
XX CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169  
XX CC represent sequences used in the exemplification of the present invention  
XX  
SQ Sequence 95 BP; 22 A; 14 C; 16 G; 43 T; 0 U; 0 Other;

Query Match 1.6%; Score 49; DB 4; Length 95;  
Best Local Similarity 100.0%; Pred. No. 4.7e-12;

Matches	49;	Conservative	0;	Mismatches	0;	Indels	0;	Gaps	0;
Qy	3073	AGATTGTGCACCTGCACCTCCAGCGCAACAGACGACATCTCTCT	3121						
Db	90	AGATTGTGCACCTGCACCTCCAGCGCAACAGACGACATCTCT	42						
RESULT 65									
AAK86736/C									
ID	AAK86736	standard; DNA; 272 BP.							
XX	AAK86736;								
AC	AAK86736;								
XX									
DT	07-NOV-2001	(first entry)							
XX									
DE	Human	immune/haematopoietic antigen genomic sequence SEQ ID NO:41548.							
XX									
KW	Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;								
XX	cytostatic; gene therapy; vaccine; metastasis; ds.								
XX	Homo sapiens.								
OS									
PN	WO200157182-A2.								
XX									
PD	09-AUG-2001.								
XX									
PF	17-JAN-2001;	2001WO-US001354.							
XX									
PR	31-JAN-2000;	2000US-0179065P.							
PR	04-FEB-2000;	2000US-0180628P.							
PR	24-FEB-2000;	2000US-0184664P.							
PR	02-MAR-2000;	2000US-0186350P.							
PR	16-MAR-2000;	2000US-0189874P.							
PR	17-MAR-2000;	2000US-0190076P.							
PR	18-APR-2000;	2000US-0198123P.							
PR	19-MAY-2000;	2000US-0205515P.							
PR	07-JUN-2000;	2000US-0209467P.							
PR	28-JUN-2000;	2000US-0214886P.							
PR	30-JUN-2000;	2000US-0215135P.							
PR	07-JUL-2000;	2000US-021647P.							
PR	07-JUL-2000;	2000US-0216880P.							
PR	11-JUL-2000;	2000US-0217487P.							
PR	11-JUL-2000;	2000US-0217496P.							
PR	14-JUL-2000;	2000US-0218290P.							
PR	26-JUL-2000;	2000US-0220963P.							
PR	26-JUL-2000;	2000US-0220964P.							
PR	14-AUG-2000;	2000US-0224518P.							
PR	14-AUG-2000;	2000US-0224519P.							
PR	14-AUG-2000;	2000US-0225213P.							
PR	14-AUG-2000;	2000US-0225214P.							
PR	14-AUG-2000;	2000US-0225266P.							
PR	14-AUG-2000;	2000US-0225267P.							
PR	14-AUG-2000;	2000US-0225268P.							
PR	14-AUG-2000;	2000US-0225270P.							
PR	14-AUG-2000;	2000US-0225447P.							
PR	14-AUG-2000;	2000US-0225757P.							
PR	14-AUG-2000;	2000US-0225758P.							
PR	14-AUG-2000;	2000US-0225759P.							
PR	18-AUG-2000;	2000US-0226279P.							
PR	22-AUG-2000;	2000US-0226681P.							
PR	22-AUG-2000;	2000US-0226686P.							
PR	22-AUG-2000;	2000US-0227182P.							
PR	23-AUG-2000;	2000US-0227109P.							
PR	30-AUG-2000;	2000US-0228924P.							
PR	01-SEP-2000;	2000US-0229287P.							
PR	01-SEP-2000;	2000US-0229343P.							
PR	01-SEP-2000;	2000US-0229344P.							
PR	01-SEP-2000;	2000US-0229345P.							
PR	05-SEP-2000;	2000US-0229509P.							
PR	05-SEP-2000;	2000US-0229513P.							
PR	06-SEP-2000;	2000US-0230437P.							
PR	06-SEP-2000;	2000US-0230438P.							
PR	08-SEP-2000;	2000US-0231242P.							

PR	08-SEP-2000;	2000US-0231243P.
PR	08-SEP-2000;	2000US-0231244P.
PR	08-SEP-2000;	2000US-0231413P.
PR	08-SEP-2000;	2000US-0231414P.
PR	08-SEP-2000;	2000US-0231415P.
PR	08-SEP-2000;	2000US-0232080P.
PR	12-SEP-2000;	2000US-0231968P.
PR	14-SEP-2000;	2000US-0232397P.
PR	14-SEP-2000;	2000US-0232398P.
PR	14-SEP-2000;	2000US-0232399P.
PR	14-SEP-2000;	2000US-0232400P.
PR	14-SEP-2000;	2000US-0232401P.
PR	14-SEP-2000;	2000US-0233063P.
PR	14-SEP-2000;	2000US-0233064P.
PR	14-SEP-2000;	2000US-0233065P.
PR	21-SEP-2000;	2000US-0234223P.
PR	21-SEP-2000;	2000US-0234274P.
PR	25-SEP-2000;	2000US-0234997P.
PR	25-SEP-2000;	2000US-0234998P.
PR	26-SEP-2000;	2000US-0235484P.
PR	27-SEP-2000;	2000US-0235834P.
PR	27-SEP-2000;	2000US-0235835P.
PR	29-SEP-2000;	2000US-0236327P.
PR	29-SEP-2000;	2000US-0236367P.
PR	29-SEP-2000;	2000US-0236368P.
PR	29-SEP-2000;	2000US-0236369P.
PR	29-SEP-2000;	2000US-0236370P.
PR	02-OCT-2000;	2000US-0236802P.
PR	02-OCT-2000;	2000US-0237037P.
PR	02-OCT-2000;	2000US-0237038P.
PR	02-OCT-2000;	2000US-0237039P.
PR	02-OCT-2000;	2000US-0237040P.
PR	13-OCT-2000;	2000US-0239935P.
PR	13-OCT-2000;	2000US-0239937P.
PR	20-OCT-2000;	2000US-0240960P.
PR	20-OCT-2000;	2000US-0241221P.
PR	20-OCT-2000;	2000US-0241785P.
PR	20-OCT-2000;	2000US-0241786P.
PR	20-OCT-2000;	2000US-0241787P.
PR	20-OCT-2000;	2000US-0241808P.
PR	20-OCT-2000;	2000US-0241809P.
PR	20-OCT-2000;	2000US-0241826P.
PR	01-NOV-2000;	2000US-0244617P.
PR	08-NOV-2000;	2000US-0246474P.
PR	08-NOV-2000;	2000US-0246475P.
PR	08-NOV-2000;	2000US-0246476P.
PR	08-NOV-2000;	2000US-0246477P.
PR	08-NOV-2000;	2000US-0246523P.
PR	08-NOV-2000;	2000US-0246524P.
PR	08-NOV-2000;	2000US-0246525P.
PR	08-NOV-2000;	2000US-0246526P.
PR	08-NOV-2000;	2000US-0246527P.
PR	08-NOV-2000;	2000US-0246528P.
PR	08-NOV-2000;	2000US-0246532P.
PR	08-NOV-2000;	2000US-0246609P.
PR	08-NOV-2000;	2000US-0246610P.
PR	08-NOV-2000;	2000US-0246611P.
PR	17-NOV-2000;	2000US-0249207P.
PR	17-NOV-2000;	2000US-0249208P.
PR	17-NOV-2000;	2000US-0249209P.
PR	17-NOV-2000;	2000US-0249210P.
PR	17-NOV-2000;	2000US-0249211P.
PR	17-NOV-2000;	2000US-0249212P.
PR	17-NOV-2000;	2000US-0249213P.
PR	17-NOV-2000;	2000US-0249214P.
PR	17-NOV-2000;	2000US-0249215P.
PR	17-NOV-2000;	2000US-0249216P.
PR	17-NOV-2000;	2000US-0249217P.
PR	17-NOV-2000;	2000US-0249218P.
PR	17-NOV-2000;	2000US-0249244P.
PR	17-NOV-2000;	2000US-0249245P.

PR 17-NOV-2000; 2000US-0249264P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249299P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0256719P.  
PR 06-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251868P.  
PR 08-DEC-2000; 2000US-0251869P.  
PR 08-DEC-2000; 2000US-0251989P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0259678P.  
XX  
XX (HUMA-) HUMAN GENOME SCI INC.  
PI Rosen CA, Barash SC, Ruben SM;  
XX WPI; 2001-483426/52.  
XX  
XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,  
PT useful for preventing, diagnosing and/or treating cancers and metastasis.  
XX  
XX Disclosure; SEQ ID NO 41548; 3071bp + Sequence Listing; English.  
XX  
XX AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)  
CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic  
CC activity, and can be used in gene therapy and vaccine production. (I)  
CC proteins and polynucleotides may be used in the prevention, diagnosis and  
CC treatment of diseases associated with inappropriate (I) expression. For  
CC example, they may be used to treat disorders associated with decreased  
CC expression by rectifying mutations or deletions in a patient's genome  
CC that affect the activity of (I) by expressing inactive proteins or to  
CC supplement the patients own production of (I). Additionally, (I)  
CC polynucleotides may be used to produce the secreted (I), by inserting the  
CC nucleic acids into a host cell and culturing the cell to express the  
CC protein. (I) proteins and polynucleotides may be used to prevent,  
CC diagnose and treat immune/haematopoietic-related diseases, especially  
CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703  
CC to AAK87694 represent human immune/haematopoietic antigen genomic  
CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169  
CC represent sequences used in the exemplification of the present invention  
XX  
XX SQ Sequence 272 BP; 45 A; 77 C; 67 G; 83 T; 0 U; 0 Other;  
Query Match 1.6%; Score 49; DB 4; Length 272;  
Best Local Similarity 100.0%; Pred. No. 4.5e-12;  
Matches 49; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 3073 AGATTGTCACCTGACCTCCAGCTGGGCAACAGAGCAAGCTCTGTCT 3121  
Db 64 AGATTGTCACCTGACCTCCAGCTGGGCAACAGAGCAAGCTCTGTCT 16  
RESULT 66  
AAK6737/c  
ID AAK6737 standard; DNA; 281 BP.  
XX  
XX AAK6737;  
XX AC  
XX 07-NOV-2001 (first entry)  
XX  
XX Human immune/haematopoietic antigen genomic sequence SEQ ID NO:41549.  
DE Human immune/haematopoietic; immune/haematopoietic antigen; cancer;  
XX  
XX Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;  
KM cytostatic; gene therapy; vaccine; metastasis; ds.  
XX  
XX Homo sapiens.  
OS

XX  
XX WO200157182-A2.  
XX  
XX 09-AUG-2001.  
XX  
XX 17-JAN-2001; 2001MO-US001354.  
XX  
XX 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205153P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 26-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225265P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226682P.  
PR 22-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230437P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232080P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 12-SEP-2000; 2000US-0231968P.  
PR 14-SEP-2000; 2000US-0232397P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0232403P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 26-SEP-2000; 2000US-0235484P.  
PR 27-SEP-2000; 2000US-0235834P.



PR 27-SEP-2000; 2000US-0235836P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236367P.  
PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0236802P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 02-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239335P.  
PR 13-OCT-2000; 2000US-0239337P.  
PR 20-OCT-2000; 2000US-0240960P.  
PR 20-OCT-2000; 2000US-0241221P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241826P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0246474P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249264P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249299P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0256719P.  
PR 06-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251868P.  
PR 08-DEC-2000; 2000US-0251869P.  
PR 08-DEC-2000; 2000US-0251989P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0255678P.  
XX  
XX  
PA (HUMA-) HUMAN GENOME SCI INC.  
XX

PI Rosen CA, Barash SC, Ruben SM;  
XX WPI; 2001-483426/52.  
DR  
XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,  
PT useful for preventing, diagnosing and/or treating cancers and metastasis.  
PR  
XX  
PS Disclosure; SEQ ID NO 41549; 3071bp + Sequence Listing; English.  
XX  
CC AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)  
CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytosolic  
CC activity, and can be used in gene therapy and vaccine production. (I)  
CC proteins and polynucleotides may be used in the prevention, diagnosis and  
CC treatment of diseases associated with inappropriate (I) expression. For  
CC example, they may be used to treat disorders associated with decreased  
CC expression by rectifying mutations or deletions in a patient's genome  
CC that affect the activity of (I) by expressing inactive proteins or to  
CC supplement the patients own production of (I). Additionally, (I)  
CC polynucleotides may be used to produce the secreted (I), by inserting the  
CC nucleic acids into a host cell and culturing the cell to express the  
CC protein. (I) proteins and polynucleotides may be used to prevent,  
CC diagnose and treat immune/haematopoietic-related diseases, especially  
CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703  
CC to AAK67694 represent human immune/haematopoietic antigen genomic  
CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169  
CC represent sequences used in the exemplification of the present invention  
XX  
SQ Sequence 281 BP; 48 A; 79 C; 70 G; 84 T; 0 U; 0 Other;  
XX  
Query Match 1.6%; Score 49; DB 4; Length 281;  
Best Local Similarity 100.0%; Pred. No. 4,5e-12;  
Matches 49; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Oy 3073 AGATTGTCACCTGCACTCCAGCTTGCAACAGAGCAAGACTGTCT 3121  
DB 63 AGATTGTCACCTGCACTCCAGCTTGCAACAGAGCAAGACTGTCT 15  
RESULT 67  
AAK66626  
ID AAK66626 standard; DNA; 21477 BP.  
XX  
AC AAK66626;  
XX  
DT 06-NOV-2001 (first entry)  
XX  
XX Human immune/haematopoietic antigen genomic sequence SEQ ID NO:21438.  
XX  
XX Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;  
KW cytosolic; gene therapy; vaccine; metastasis; ds.  
XX  
OS Homo sapiens.  
XX  
XX WO200157182-A2.  
XX  
PD 09-AUG-2001.  
XX  
XX  
XX 17-JAN-2001; 2001WO-US001354.  
XX  
PR 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209457P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 11-JUL-2000; 2000US-0216880P.  
PR

PR 11-JUL-2000; 2000US-0217496P.  
PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0230964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225266P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226868P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 05-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 06-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230437P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232080P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 12-SEP-2000; 2000US-0231968P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 25-SEP-2000; 2000US-0234999P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235835P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236367P.  
PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0236802P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 02-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239935P.  
PR 13-OCT-2000; 2000US-0239937P.  
PR 20-OCT-2000; 2000US-0240960P.  
PR 20-OCT-2000; 2000US-0241221P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241826P.

PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0246474P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249246P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249299P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0256719P.  
PR 06-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251858P.  
PR 08-DEC-2000; 2000US-0251869P.  
PR 08-DEC-2000; 2000US-0251989P.  
PR 08-DEC-2000; 2000US-0251990P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0259678P.  
  
PA (HUMA-) HUMAN GENOME SCI INC.  
XX  
XX Rosen CA, Barash SC, Ruben SM;  
XX WPI; 2001-483426/52.  
XX  
XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,  
PT useful for preventing, diagnosing and/or treating cancers and metastasis.  
XX  
XX  
XX Disclosure; SEQ ID NO 21438; 3071pp + Sequence listing; English.  
XX  
XX AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)  
CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic  
CC activity, and can be used in gene therapy and vaccine production. (I)  
CC proteins and polynucleotides may be used in the prevention, diagnosis and  
CC treatment of diseases associated with inappropriate (I) expression. For  
CC example, they may be used to treat disorders associated with decreased  
CC expression by rectifying mutations or deletions in a patient's genome  
CC that affect the activity of (I) by expressing inactive proteins or to  
CC supplement the patients own production of (I). Additionally, (I)  
CC polynucleotides may be used to produce the secreted (I), by inserting the  
CC nucleic acids into a host cell and culturing the cell to express the  
CC protein. (I) proteins and polynucleotides may be used to prevent,

CC diagnose and treat immune/haematopoietic-related diseases, especially  
 CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703  
 CC to AAK87694 represent human immune/haematopoietic antigen genomic  
 CC sequences from the present invention. AAK54942 to AAK54950 and AAK82169  
 CC represent sequences used in the exemplification of the present invention  
 CC  
 SQ Sequence 21477 BP; 5311 A; 4999 C; 5256 G; 5911 T; 0 U; 0 Other;

Query Match 1.6%; Score 49; DB 4; Length 21477;

Best Local Similarity 100.0%; Pred. No. 3.9e-12;

Matches 49; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3073 AGATTGTCACATGCACTCCAGCTGGGCAAGAGCAAGACTGTGTCT 3121

DB 13201 AGATTGTCACATGCACTCCAGCTGGGCAAGAGCAAGACTGTGTCT 13249

RESULT 68

AD213418/C

ID AD213418 standard; DNA; 85920 BP.

AC AD213418;

DT 16-JUN-2005 (first entry)

DE Human cancer-associated genomic DNA #80.

KW Diagnosis; DNA microarray; microarray; biochip; cancer; neoplasm;

KW cytostatic; gene; ds.

OS Homo sapiens.

PN WO2005031001-A2.

PD 07-APR-2005.

PF 23-SEP-2004; 2004WO-US031617.

PR 23-SEP-2003; 2003US-00669920.

PA (CHIR ) CHIRON CORP.

PI Morris DW, Malandro MS;

DR WPI; 2005-273395/28.

PT Nucleic acid array useful for detecting cancer associated nucleic acid,  
 PT comprises two or more nucleic acid probes.

PS Disclosure; SEQ ID NO 938; 198pp; English.

CC The invention relates to a nucleic acid array for detecting a cancer  
 CC associated (CA) nucleic acid, comprising two or more nucleic acid probes.  
 CC The invention also relates to a peptide array comprising two or more  
 CC isolated polypeptides encoded by a CA nucleic acid sequence, a compound  
 CC that binds to a polypeptide, an isolated antibody or its fragment which  
 CC binds to a polypeptide, which is prepared by immunizing a host animal  
 CC with a composition comprising the polypeptide or its antigen binding  
 CC fragment and collecting cells from the host expressing antibodies against  
 CC the antigen or its antigen binding fragment, a composition comprising the  
 CC antibody and a carrier, a method of screening for anticancer activity, a  
 CC method of detecting a CA nucleic acid, a method of diagnosing cancer, a  
 CC method of treating cancer and a method of inhibiting expression of a CA  
 CC nucleic acid in a cell. The CA nucleic acids are useful for detecting CA  
 CC nucleic acids. The antibody is useful for detecting the presence or  
 CC absence of cancer cells in an individual which involves contacting cells  
 CC from the individual with the antibody and detecting a complex of a CA  
 CC protein from the cancer cells and the antibody, where the detection of  
 CC the complex correlates with the presence of cancer cells in the  
 CC individual. The composition is useful for inhibiting growth of cancer  
 CC cells in an individual or for delivering a therapeutic agent to cancer  
 CC cells in an individual. The invention is also useful for diagnosing  
 CC cancer, for treating cancer and for inhibiting expression of a CA gene in

CC a cell. This sequence represents human cancer-associated genomic DNA of  
 CC the invention.

SQ Sequence 85920 BP; 23268 A; 18962 C; 19343 G; 24347 T; 0 U; 0 Other;

Query Match 1.6%; Score 49; DB 14; Length 85920;

Best Local Similarity 100.0%; Pred. No. 3.7e-12;

Matches 49; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3073 AGATTGTCACATGCACTCCAGCTGGGCAAGAGCAAGACTGTGTCT 3121

DB 45176 AGATTGTCACATGCACTCCAGCTGGGCAAGAGCAAGACTGTGTCT 45128

RESULT 69

ADP51132/C

ID ADP51132 standard; DNA; 243428 BP.

AC ADP51132;

DT 12-FEB-2004 (first entry)

DE Human P-Rex1 genomic DNA sequence.

KW human; P-Rex1; Rac; guanine-nucleotide exchange factor; GEF; GTPase;

KW inflammation; metastasis; septic shock; neurodegeneration;

KW atherosclerosis; antiinflammatory; cytostatic; antibacterial;

KW immunosuppressive; neuroprotective; antiarteriosclerotic; gene; ds.

OS Homo sapiens.

PN WO2003080664-A1.

PD 02-OCT-2003.

PF 21-MAR-2003; 2003WO-GB001238.

PR 21-MAR-2002; 2002GB-00006684.

PA (BABR-) BABRAHAM INST.

PI Stephens L, Hawkins PT;

DR WPI; 2004-011515/01.

DR P-ESDB; ADP51119.

PT New isolated P-Rex1 protein or its derivative useful for discovering  
 PT drugs capable of reducing or inhibiting inflammation, metastasis, septic  
 PT shock, neurodegeneration or atherosclerosis, or for identifying P-Rex1  
 PT modulators.

PS Disclosure; SEQ ID NO 14; 198pp; English.

CC This invention relates to a novel protein useful as an anti-inflammatory  
 CC target. Specifically, it refers to the guanine-nucleotide exchange factor  
 CC (GEF) named P-Rex1, which has also been identified as a  
 CC phosphatidylinositol(3,4,5)P3-sensitive activator of Rac (a monomeric  
 CC GTPase). Accordingly, P-Rex1 can be described as having Rac-GEF activity  
 CC and is adapted to function downstream of activation of heterotrimeric G  
 CC proteins in neutrophils. The present invention describes this protein as  
 CC a useful target for drug discovery or for discovery of a drug capable of  
 CC reducing or inhibiting inflammation, metastasis, septic shock,  
 CC neurodegeneration or atherosclerosis. As such, P-Rex1 can have various  
 CC activities including antiinflammatory, cytostatic, antibacterial,  
 CC immunosuppressive, neuroprotective and antiarteriosclerotic. Furthermore,  
 CC the protein or its mutant, the nucleic acid or appropriate antibody may  
 CC be used in a screening assay to identify a modulator of P-Rex1 binding  
 CC activity or expression. This polynucleotide is the human P-Rex1 genomic  
 CC DNA sequence of the invention.

SQ Sequence 243428 BP; 65880 A; 63219 C; 59010 G; 55319 T; 0 U; 0 Other;

Query Match 1.6%; Score 49; DB 12; Length 243428;



PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249264P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249299P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0256719P.  
PR 06-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251868P.  
PR 08-DEC-2000; 2000US-0251869P.  
PR 08-DEC-2000; 2000US-0251899P.  
PR 08-DEC-2000; 2000US-0251990P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0259678P.  
XX  
PA (HUMA-) HUMAN GENOME SCI INC.  
XX  
PI Rosen CA, Barash SC, Ruben SM;  
XX  
XX WPI; 2001-483426/52.  
DR  
XX  
XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,  
PT useful for preventing, diagnosing and/or treating cancers and metastasis.  
XX  
XX Disclosure; SEQ ID NO 37270; 3071pp + Sequence Listing; English.  
XX  
CC AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)  
CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic  
CC activity, and can be used in gene therapy and vaccine production. (I)  
CC proteins and polynucleotides may be used in the prevention, diagnosis and  
CC treatment of diseases associated with inappropriate (I) expression. For  
CC example, they may be used to treat disorders associated with decreased  
CC expression by rectifying mutations or deletions in a patient's genome  
CC that affect the activity of (I) by expressing inactive proteins or to  
CC supplement the patient's own production of (I). Additionally, (I)  
CC polynucleotides may be used to produce the secreted (I), by inserting the  
CC nucleic acids into a host cell and culturing the cell to express the  
CC protein. (I) proteins and polynucleotides may be used to prevent,  
CC diagnose and treat immune/haematopoietic-related diseases, especially  
CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703  
CC to AAK87694 represent human immune/haematopoietic antigen genomic  
CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169  
CC represent sequences used in the exemplification of the present invention  
XX  
SQ Sequence 4316 BP; 1270 A; 791 C; 832 G; 1423 T; 0 U; 0 Other;  
  
Query Match 1.5%; Score 48; DB 4; Length 4316;  
Best Local Similarity 100.0%; Pred. No. 1.2e-11;  
Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 3075 ATTGTGCGCATGCACTCCAGCCTGGGCAACAGAGCAAGACTGTCTC 3122  
DB 372 ATTGTGCGCATGCACTCCAGCCTGGGCAACAGAGCAAGACTGTCTC 325  
  
RESULT 71  
AAK82461/c  
ID AAK82461 standard; DNA; 4316 BP.  
XX  
XX  
AC AAK82461;  
XX  
XX  
DT 07-NOV-2001 (first entry)  
XX  
XX Human immune/haematopoietic antigen genomic sequence SEQ ID NO:37273.  
DE  
XX Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;  
KM cytostatic; gene therapy; vaccine; metastasis; ds.  
XX

OS Homo sapiens.  
XX  
XX WO200157182-A2.  
PN  
XX  
XX  
PD 09-AUG-2001.  
XX  
XX  
PF 17-JAN-2001; 2001WO-US001354.  
XX  
PR 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205151P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 11-JUL-2000; 2000US-0217496P.  
PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225266P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226868P.  
PR 22-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230437P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 12-SEP-2000; 2000US-0231968P.  
PR 14-SEP-2000; 2000US-0233397P.  
PR 14-SEP-2000; 2000US-0233398P.  
PR 14-SEP-2000; 2000US-0233399P.  
PR 14-SEP-2000; 2000US-023400P.  
PR 14-SEP-2000; 2000US-023401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 26-SEP-2000; 2000US-0235484P.

PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235836P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236367P.  
PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0236802P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 02-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239353P.  
PR 13-OCT-2000; 2000US-0239354P.  
PR 20-OCT-2000; 2000US-0240960P.  
PR 20-OCT-2000; 2000US-0241221P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241826P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0246474P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249264P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249299P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0256719P.  
PR 06-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251868P.  
PR 08-DEC-2000; 2000US-0251869P.  
PR 08-DEC-2000; 2000US-0251989P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0235678P.  
PR XX  
PR (HUMA-) HUMAN GENOME SCI INC.

XX  
PI Rosen CA, Barash SC, Ruben SM;  
XX  
DR WPI; 2001-463426/52.  
XX  
PT Nucleic acids encoding human immune/hematopoietic antigen polypeptides,  
PT useful for preventing, diagnosing and/or treating cancers and metastasis.  
XX  
PS Disclosure; SEQ ID NO 37273; 3071bp + Sequence Listing; English.  
XX  
CC AAK54951 to AAK64702 encode the human immune/hematopoietic antigen (I)  
CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic  
CC activity, and can be used in gene therapy and vaccine production. (I)  
CC proteins and polynucleotides may be used in the prevention, diagnosis and  
CC treatment of diseases associated with inappropriate (I) expression. For  
CC example, they may be used to treat disorders associated with decreased  
CC expression by rectifying mutations or deletions in a patient's genome  
CC that affect the activity of (I) by expressing inactive proteins or to  
CC supplement the patients own production of (I). Additionally, (I)  
CC polynucleotides may be used to produce the secreted (I), by inserting the  
CC nucleic acids into a host cell and culturing the cell to express the  
CC protein. (I) proteins and polynucleotides may be used to prevent,  
CC diagnose and treat immune/hematopoietic-related diseases, especially  
CC cancers and cancer metastases of hematopoietic-derived cells. AAK64703  
CC to AAK87694 represent human immune/hematopoietic antigen genomic  
CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169  
CC represent sequences used in the exemplification of the present invention  
XX  
SQ Sequence 4316 BP; 1270 A; 791 C; 832 G; 1423 T; 0 U; 0 Other;  
Query Match 1.5%; Score 48; DB 4; Length 4316;  
Best Local Similarity 100.0%; Pred. No. 1.2e-11;  
Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 3075 ATTGTGCACCTGCACCTGCACCTGGGCAACAGAGCAAGACTCTGTC 3122  
Db 372 ATTGTGCACCTGCACCTGCACCTGGGCAACAGAGCAAGACTCTGTC 325  
RESULT 72  
AAK82456/C  
ID AAK82456 standard; DNA; 4317 BP.  
XX  
AC AAK82456;  
XX  
DT 07-NOV-2001 (first entry)  
XX  
DE Human immune/hematopoietic antigen genomic sequence SEQ ID NO:37268.  
XX  
KW Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;  
KW cytostatic; gene therapy; vaccine; metastasis; de.  
XX  
OS Homo sapiens.  
XX  
FN W0200157182-A2.  
PD  
PD 09-AUG-2001.  
XX  
PF 17-JAN-2001; 2001MO-US001354.  
XX  
XX 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0216880P.



CC protein. (1) proteins and polynucleotides may be used to prevent,  
 CC diagnose and treat immune/haematopoietic-related diseases, especially  
 CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703  
 CC to AAK87694 represent human immune/haematopoietic antigen genomic  
 CC sequences from the present invention. AAK54942 to AAK54550 and AAK82169  
 CC represent sequences used in the exemplification of the present invention  
 XX  
 SQ Sequence 4317 BP; 1270 A; 791 C; 831 G; 1425 T; 0 U; 0 Other;

Query Match 1.5%; Score 48; DB 4; Length 4317;  
 Best Local Similarity 100.0%; Pred. No. 1.2e-11;  
 Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3075 ATTGTGCACTGCACTCCAGCTGTGGCAACAGACCAAGACTGTGCTC 3122  
 |||||  
 Db 372 ATTGTGCACTGCACTCCAGCTGTGGCAACAGACCAAGACTGTGCTC 325

RESULT 73  
 ADA02666  
 ID ADA02666 standard; DNA; 52242 BP.  
 XX  
 AC ADA02666;

DT 06-NOV-2003 (first entry)

DE Human MDM2 carcinoma associated gene, SEQ ID NO:1184.

XX Human; carcinoma associated; oncogene; carcinoma; cancer; breast;  
 KW prostate; lymphoma; leukaemia; cytostatic; gene therapy; drug screening;  
 KW gene; ds.

XX Homo sapiens.

XX MO2003057146-A2.

XX 17-JUL-2003.

PF 26-DEC-2002; 2002WO-US041414.

XX 26-DEC-2001; 2001US-00035832.

PA (SAGR-) SAGRES DISCOVERY.

PI Morris DW;

XX WPI; 2003-587068/55.

PT New recombinant nucleic acid encoding carcinoma associated protein,  
 PT useful for preparing compositions for treating carcinomas.

PS Claim 1; SEQ ID NO 1184; 245pp; English.

XX The invention relates to recombinant carcinoma associated (CA) nucleic  
 CC acid sequences from mouse and human (ADA01482-ADA03094), and to  
 CC recombinant carcinoma associated proteins (CAP) encoded by them. The  
 CC invention also encompasses expression vectors and host cells comprising a  
 CC CA nucleic acid, a polypeptide (especially an antibody) that specifically  
 CC binds to the protein, and a biochip comprising CA nucleic acid or  
 CC fragments thereof. The sequences of the invention were identified using  
 CC oncogenic retroviruses, which insert into the genome of the host organism  
 CC at random. Many of these do not carry transduced host oncogenes or  
 CC pathogenic trans-acting viral genes, meaning that cancer incidence is a  
 CC direct consequence of the effects of proviral integration into host  
 CC protooncogenes. The CA nucleic acid sequences can be used to diagnose  
 CC carcinoma (especially breast cancer, prostate cancer, lymphoma or  
 CC leukaemia) or a propensity to carcinoma by determination of the sequence  
 CC of a CA gene, or by determination of CA gene expression in particular  
 CC tissues. CA nucleic acids, proteins and antibodies are also useful as  
 CC therapeutic agents and in screening and evaluating drug candidates. The  
 CC present sequence represents a specifically claimed human CA nucleic acid  
 CC sequence of the invention. Note: The complete sequence data for this  
 CC patent did not form part of the printed specification, but was obtained

CC in electronic format directly from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences.

XX Sequence 52242 BP; 14384 A; 10354 C; 10997 G; 16487 T; 0 U; 20 Other;

Qy 2895 GGTGGATCACCTGAGGCCAGAGTTGAGACCAAGCTTGCCCAACATAG 2942  
 |||||  
 Db 5520 GGTGGATCACCTGAGGCCAGAGTTGAGACCAAGCTTGCCCAACATAG 5567

Query Match 1.5%; Score 48; DB 9; Length 52242;  
 Best Local Similarity 100.0%; Pred. No. 1.1e-11;  
 Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 74  
 ADB72404  
 ID ADB72404 standard; DNA; 52242 BP.  
 XX  
 AC ADB72404;

DT 04-DEC-2003 (first entry)

DE Human MDM2 gene.

XX human; ds; cytostatic; gene therapy; vaccine; carcinoma; lymphomas;  
 KW cancer; neoplasm; adenocarcinoma; sarcoma; gene.

XX Homo sapiens.

XX MO2003008583-A2.

XX 30-JAN-2003.

PF 26-DEC-2001; 2001WO-US051291.

XX 02-MAR-2001; 2001US-00798586.

XX 23-OCT-2001; 2001US-00004113.

XX 08-NOV-2001; 2001US-00052482.

XX 30-NOV-2001; 2001US-00997722.

XX 20-DEC-2001; 2001US-00034650.

PA (SAGR-) SAGRES DISCOVERY.

PI Morris DW, Engelhard EK;

XX WPI; 2003-239337/23.

PT New recombinant nucleic acid, useful for treating carcinomas, lymphomas,  
 PT cancers, neoplasm, adenocarcinoma, or sarcomas.

PS Claim 1; SEQ ID NO 232; 2304pp; English.

XX The invention relates to a novel recombinant nucleic acid comprising a  
 CC nucleotide sequence selected from any of the 660 sequences fully defined  
 CC in the specification. A polynucleotide of the invention has cytostatic  
 CC activity, and may have a use in gene therapy, or in a vaccine. The  
 CC recombinant nucleic acids and polypeptides are useful for treating  
 CC carcinomas, e.g. lymphomas, cancers, neoplasm, adenocarcinoma, and  
 CC sarcomas. The present sequence represents a human gene of the invention.

XX Sequence 52242 BP; 14384 A; 10354 C; 10997 G; 16487 T; 0 U; 20 Other;

Qy 2895 GGTGGATCACCTGAGGCCAGAGTTGAGACCAAGCTTGCCCAACATAG 2942  
 |||||  
 Db 5520 GGTGGATCACCTGAGGCCAGAGTTGAGACCAAGCTTGCCCAACATAG 5567

Query Match 1.5%; Score 48; DB 10; Length 52242;  
 Best Local Similarity 100.0%; Pred. No. 1.1e-11;  
 Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 75  
 ADB95914



ID ADB95914 standard; DNA; 52242 BP.  
XX  
AC ADB95914;  
XX  
DT 12-FEB-2004 (first entry)  
XX  
DE Human MDM2 gene genomic DNA sequence.  
XX  
KM cancer diagnosis; cancer treatment; carcinoma; cytostatic; gene therapy;  
KM lymphoma; breast cancer; prostate cancer; leukemia; ds; human; MDM2.  
XX  
OS Homo sapiens.  
XX  
PN WO2003039484-A2.  
XX  
PD 15-MAY-2003.  
XX  
PF 08-NOV-2002; 2002WO-US036071.  
XX  
PR 08-NOV-2001; 2001US-00052482.  
XX  
PA (SAGR-) SAGRES DISCOVERY.  
XX  
PI Morris DW, Engelhard EK;  
XX  
DR WPI; 2003-441462/41.  
XX  
PS New carcinoma associated nucleic acids and proteins, useful for screening  
PT drug candidates, or for diagnosing and treating carcinomas, e.g.  
PT lymphoma, breast cancer, prostate cancer or leukemia.  
XX  
PS Claim 1; SEQ ID NO 172; 793bp; English.  
XX  
CC This invention relates to novel recombinant nucleic acids for use in  
CC diagnosis and treatment of cancer, especially carcinomas, as well as the  
CC use of compositions in screening methods. The compositions of the  
CC invention may have cytostatic activity whilst the disclosed sequences may  
CC be useful for gene therapy. The carcinoma associated nucleic acids and  
CC proteins are useful for diagnosing and treating carcinomas, for example  
CC lymphoma, breast cancer, prostate cancer or leukemia, or for screening  
CC drug candidates or bioactive agents capable of binding to, or modulating  
CC the activity of, a carcinoma associated protein. The present sequence is  
CC the genomic DNA sequence of the human MDM2 gene which is a carcinoma  
CC associated gene of the invention.  
XX  
SQ Sequence 52242 BP; 14384 A; 10353 C; 10998 G; 16487 T; 0 U; 20 Other;

Query Match 1.5%; Score 48; DB 10; Length 52242;  
Best Local Similarity 100.0%; Pred. No. 1.1e-11;  
Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2895 GGTGATCACTGAGGCCAGAGTTGAGACCAAGCTGGCCAAACATAG 2942  
DB 5520 GGTGATCACTGAGGCCAGAGTTGAGACCAAGCTGGCCAAACATAG 5567

RESULT 76  
AEA61175/C  
ID AEA61175 standard; DNA; 53779 BP.  
XX  
AC AEA61175;  
XX  
DT 25-AUG-2005 (first entry)  
XX  
DE Human ENTPD5 gene genomic sequence SEQ ID NO:85.  
XX  
KM DNA methylation; biomarker; cancer; gene; ds; ENTPD5.  
XX  
OS Homo sapiens.  
XX  
PN US2005130172-A1.  
XX  
PD 16-JUN-2005.

XX  
PR 27-JAN-2004; 2004US-00765790.  
XX  
PR 16-DEC-2003; 2003US-00737082.  
XX  
PA (FARB ) BAYER CORP.  
XX  
PI Beard C, Burgess C, Gannon A, Harvey J, Lechner JF, Li Z;  
XX  
DR WPI; 2005-456991/46.  
XX  
DR GENBANK; NM\_001249.  
XX  
PT Identifying nucleic acid sequences as biomarker for disease, by  
PT identifying nucleic acid sequences comprising methylated CpG site and  
PT down-regulated in diseased cells and comparing its expression level with  
PT demethylated nucleic acid.  
XX  
PS Claim 11; SEQ ID NO 85; 27pp; English.  
XX  
CC The invention relates to a method (M1) for identifying one or more  
CC nucleic acid sequences useful as a biomarker for a disease to be  
CC detected. (M1) involves identifying nucleic acid sequences comprising  
CC methylated CpG site in promoter-first exon region and that are down-  
CC regulated in diseased cells, comparing expression level of nucleic acid  
CC sequences with that of demethylated nucleic acid sequences and  
CC identifying nucleic acid sequences exhibiting increase in expression  
CC after demethylation. Also described: (1) detecting (M2) the presence or  
CC stage of a disease in a subject, which involves determining the degree of  
CC methylation of one or more CpG sites on nucleic acid sequences in a  
CC biological sample obtained from the subject, and determining the presence  
CC of, predisposition to, or stage of the disease in the subject based on  
CC the degree of methylation; (2) monitoring the onset, progression, or  
CC regression of a disease in a subject; (3) determining the efficacy of a  
CC test compound for inhibiting a disease in a subject; and (4) a kit (I)  
CC useful for diagnosis, prognosis, staging, monitoring, and therapeutic  
CC treatment of a disease. (M1) is useful for identifying one or more  
CC nucleic acid sequences useful as a biomarker for a disease to be  
CC detected, where the nucleic acid sequences are useful for detecting, the  
CC presence or stage of a disease such as cancer e.g. colorectal cancer in a  
CC subject. The present sequence represents a specifically claimed human  
CC genomic sequence for use in the method of the invention. Note - The  
CC sequence data for this patent is not represented in the printed  
CC specification but was obtained in electronic format from the USPTO web  
CC site.  
XX  
SQ Sequence 53779 BP; 14286 A; 11767 C; 12248 G; 15478 T; 0 U; 0 Other;

Query Match 1.5%; Score 48; DB 14; Length 53779;  
Best Local Similarity 100.0%; Pred. No. 1.1e-11;  
Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2889 GAGGAGGTGATCACTGAGGCCAGAGTTGAGACCAAGCTGGCCA 2936  
DB 2311 GAGGAGGTGATCACTGAGGCCAGAGTTGAGACCAAGCTGGCCA 2264

RESULT 77  
ACN44374  
ID ACN44374 standard; DNA; 181684 BP.  
XX  
AC ACN44374;  
XX  
DT 18-NOV-2004 (first entry)  
XX  
DE Human genomic sequence hCG16551.  
XX  
KM Cytostatic; carcinoma; lymphoma; cancer; human; gene; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO2003073826-A2.  
XX  
PD 12-SEP-2003.

PF	28-FEB-2003; 2003WO-US006235.
XX	
PR	01-MAR-2002; 2002US-00087192.
XX	
PA	(SAGR-) SAGRES DISCOVERY.
PI	Morris DW;
XX	
DR	WPI; 2003-328604/31.
XX	
PT	Recombinant nucleic acid useful for diagnosis and treatment of carcinoma
PT	comprises a nucleotide sequence.
XX	
PS	Claim 1; SEQ ID NO 790, Opp; English.
XX	
CC	The present invention relates to novel DNA and protein sequences which
CC	are associated with carcinomas; (ii) for screening of bioactive agent capable
CC	of binding to Carcinoma Associated Protein (CAP); (iii) for screening of
CC	a bioactive agent capable of modulating the activity of CAP; (iv) for
CC	evaluating the effect of a candidate carcinoma drug; (v) for diagnosing
CC	carcinoma; (vi) for inhibiting the activity of CAP; (vii) for treating
CC	carcinoma; (viii) for neutralizing the effect of CAP; (ix) as a blockad;
CC	(x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for
CC	determining Carcinoma Associated (CA) gene copy number. In addition, the
CC	CA genes are useful as DNA vaccines and the CAP are useful as markers of
CC	carcinoma including lymphoma. The present sequence is one such CA coding
CC	sequence. Note: This patent is an equivalent to basic patent
CC	US2002182566A1, for which no sequence data was published
XX	
SO	Sequence 181684 BP; 55185 A; 34753 C; 35001 G; 55847 T; 0 U; 898 Other;
	Query Match 1.5%; Score 48; DB 11; Length 181684;
	Best Local Similarity 100.0%; Pred. No. 1.1e-11;
	Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY	3073 AGATTGTGCCACTGCATCTCCAGCCTGGGCAACAGAGCAAGACTGTGC 3120
	155726 AGATTGTGCCACTGCATCTCCAGCCTGGGCAACAGAGCAAGACTGTGC 155773
Db	
RESULT 78	
ABV16331	
ID	ABV16331 standard; cDNA; 440 BP.
XX	
AC	ABV16331;
XX	
DT	13-SEP-2002 (first entry)
XX	
DE	Human prostate expression marker cDNA 16322.
XX	
KW	Human; prostate cancer; cytosolic; carcinogen; pharmacodynamic marker;
KW	pharmacogenomic marker; gene; ss.
OS	Homo sapiens.
XX	
PN	WO200160860-A2.
XX	
PD	23-AUG-2001.
XX	
PP	20-FEB-2001; 2001WO-US005171.
XX	
PR	17-FEB-2000; 2000US-0183319P.
PR	16-MAR-2000; 2000US-0189862P.
PR	25-MAY-2000; 2000US-0207454P.
PR	09-JUN-2000; 2000US-0211314P.
PR	18-JUL-2000; 2000US-0219007P.
PR	13-DEC-2000; 2000US-0255281P.
XX	
PA	(MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX	
PI	Schlegel R, Endege WO, Monahan JE;

XX WP1: 2001-662795/76.

XX Novel isolated nucleic acid molecule associated with cancerous state of prostate cells and correlating with presence of prostate cancer, useful for detecting presence of prostate cancer, stage of prostate cancer.

XX Claim 1; Page 2728; 11750pp; English.

XX The invention relates to an isolated nucleic acid molecule (I) comprising a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the specification or its complement. (I) is useful for: (a) assessing whether a patient is afflicted with prostate cancer; (b) monitoring the progression of prostate cancer in a patient; (c) assessing the efficacy of a test compound to inhibit prostate cancer in a patient; (d) assessing the efficacy of a therapy for inhibiting prostate cancer in a patient; (e) selecting a composition for inhibiting prostate cancer in a patient; (f) assessing the prostate cell carcinogenic potential of a compound; (g) determining whether prostate cancer has metastasized in a patient; (h) assessing the aggressiveness or indolence of prostate cancer in a patient; (i) is also useful as a pharmacodynamic or pharmacogenomic marker

XX Sequence 440 BP; 136 A; 96 C; 112 G; 96 T; 0 U; 0 Other;

XX

XX Query Match 1.5%; Score 47; DB 5; Length 440;

XX Best Local Similarity 100.0%; Pred. No. 3.8e-11;

XX Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX

XX 3070 GCAGATTGTGCCACTGCCTCCAGCCTGGGCAACAGACGACGACTC 3116

XX |||

XX Db 378 GCAGATTGTGCCACTGCCTCCAGCCTGGGCAACAGACGACGACTC 424

XX

XX RESULT 79

XX ABV46129

XX ID ABV46129 standard; cDNA; 516 BP.

XX AC ABV46129;

XX DT 16-SEP-2002 (first entry)

XX DE Human prostate expression marker cDNA 46120.

XX KW Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker; pharmacogenomic marker; gene; ss.

XX OS Homo sapiens.

XX FN WO200106860-A2.

XX PD 23-AUG-2001.

XX PE 20-FEB-2001; 2001WO-US005171.

XX PR 17-FEB-2000; 2000US-0183319P.

XX PR 16-MAR-2000; 2000US-0189862P.

XX PR 25-MAY-2000; 2000US-0207454P.

XX PR 09-JUN-2000; 2000US-0211314P.

XX PR 18-JUL-2000; 2000US-0219007P.

XX PR 13-DEC-2000; 2000US-0255281P.

XX PA (MIL-) MILLENNIUM PREDICTIVE MEDICINE INC.

XX PI Schlegel R, Endege WO, Monahan JE;

XX WP1: 2001-662795/76.

XX Novel isolated nucleic acid molecule associated with cancerous state of prostate cells and correlating with presence of prostate cancer, useful for detecting presence of prostate cancer, stage of prostate cancer.

XX Claim 1; Page 9110; 11750pp; English.

CC The invention relates to an isolated nucleic acid molecule (1) comprising  
CC a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the  
CC specification or its complement. (1) is useful for: (a) assessing whether  
CC a patient is afflicted with prostate cancer; (b) monitoring the  
CC progression of prostate cancer in a patient; (c) assessing the efficacy  
CC of a test compound to inhibit prostate cancer in a patient; (d) assessing  
CC the efficacy of a therapy for inhibiting prostate cancer in a patient;  
CC (e) selecting a composition for inhibiting prostate cancer in a patient;  
CC (f) assessing the prostate cell carcinogenic potential of a compound; (g)  
CC determining whether prostate cancer has metastasized in a patient; (h)  
CC assessing the aggressiveness or indolence of prostate cancer in a patient  
CC ; (1) is also useful as a pharmacodynamic or pharmacogenomic marker  
SQ Sequence 516 BP; 161 A; 118 C; 135 G; 100 T; 0 U; 2 Other;

Query Match 1.5%; Score 47; DB 5; Length 516;  
Best Local Similarity 100.0%; Pred. No. 3.8e-11;  
Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3070 GCAAGATTGTGCACTGCATCCAGCTGGGCAAGAGCAAGACTC 3116  
Db 418 GCAAGATTGTGCACTGCATCCAGCTGGGCAAGAGCAAGACTC 464

RESULT 80  
ADL13941  
ID ADL13941 standard; DNA; 125515 BP.

AC ADL13941;  
XX  
XX  
DT 06-MAY-2004 (first entry)

DE Osteoarthritis-associated polymorphic nucleotide #473.  
KW ds; gene; osteopathic; antiinflammatory; antiarthritic; gene therapy;  
KW joint space narrowing; osteophyte development; joint pain;  
KW osteoarthritis; SNP; single nucleotide polymorphism.  
XX  
XX Homo sapiens.  
OS  
XX  
XX WO200305416-A2.  
XX  
XX PD 03-JUL-2003.  
XX  
XX PF 19-DEC-2002; 2002WO-US041225.  
XX  
XX PR 20-DEC-2001; 2001US-0342603P.  
XX  
XX PA (INCY-) INCYTE GENOMICS INC.  
XX  
XX PI Jones KA, Schafer A;  
XX  
XX DR WPI; 2003-559141/52.  
XX  
XX PT Determining susceptibility of an individual to joint space narrowing,  
XX osteophyte development and/or joint pain comprises identifying whether  
XX the individual has at least one polymorphism in a polymorphic nucleotide encoding  
XX a protein.  
XX  
XX PS Disclosure; SEQ ID NO 473; 297pp; English.

CC The invention relates to a method of determining susceptibility of an  
CC individual to joint space narrowing and/or osteophyte development and/or  
CC joint pain comprising identifying whether the individual has at least one  
CC polymorphism in a polymorphic nucleotide encoding at least one of the protein  
CC listed in the specification. The methods, composition and agent are  
CC useful for modulating the susceptibility of an individual to joint space  
CC narrowing and/or osteophyte development and/or joint pain that is  
CC associated with a disease, preferably osteoarthritis. The cell line and  
CC the non-human animal are useful for screening for an agent for diagnosing  
CC an individual having susceptibility to joint space narrowing and/or  
CC osteophyte development and/or joint pain. This sequence corresponds to  
CC the polymorphic nucleotide encoding a protein listed in the specification. (Note:

CC The sequence data for this patent did not form part of the printed  
CC specification but was obtained in electronic format directly from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences).

SQ Sequence 125515 BP; 33180 A; 28822 C; 28744 G; 34769 T; 0 U; 0 Other;

Query Match 1.5%; Score 47; DB 10; Length 125515;  
Best Local Similarity 100.0%; Pred. No. 3.2e-11;  
Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3076 TTGTGCACTGCATCCAGCTGGGCAAGAGCAAGACTGTGCTC 3122  
Db 77293 TTGTGCACTGCATCCAGCTGGGCAAGAGCAAGACTGTGCTC 77239

RESULT 81  
ADM06065/C  
ID ADM06065 standard; DNA; 380 BP.

AC ADM06065;  
XX  
XX  
DT 24-MAR-2005 (first entry)

DE Human gene trapped sequence (GTS) - SEQ ID 282.

KW gene expression; forensic; aging; cancer; autoimmune disease;  
KW systemic lupus erythematosus; scleroderma; crohns disease;  
KW multiple sclerosis; inflammatory bowel disease; immune disorder;  
KW schizophrenia; psychosis; alopecia; inflammatory disorder;  
KW ataxia telangiectasia; diabetes; skin disorder; osteoarthritis;  
KW rheumatoid arthritis; blood pressure; atherosclerosis;  
KW cardiovascular disease; pulmonary disease; Alzheimers disease;  
KW Parkinsons disease; osteoporosis; asthma; developmental disorder;  
KW infertility; infection; cytostatic; immunosuppressive; dermatological;  
KW antiinflammatory; neuroprotective; gastrointestinal-gen.;  
KW neuroleptic endocrine-gen.; antidiabetic; antiarthritic; osteopathic;  
KW antihypertensive; antiarteriosclerotic; cardiovascular-gen.; nootropic;  
KW antiparkinsonian; antistimulant; antiinfectivity; gene trapped sequence;  
KW GTS; ds.  
XX  
XX  
XX Homo sapiens.  
OS  
XX  
XX US2005003444-A1.  
XX  
XX PN 06-JAN-2005.  
XX  
XX PD 06-AUG-2004; 2004US-00914037.  
XX  
XX PF 30-OCT-1998; 98US-0106442P.  
XX  
XX PR 27-OCT-1999; 99US-00428674.  
XX  
XX PA (LEXI-) LEXICON GENETICS INC.  
XX  
XX PI Nehls M, Zambrowicz B, Sands AT;  
XX  
XX DR WPI; 2005-065239/07.  
XX  
XX PT New human gene trapped sequences, useful for diagnosing and treating  
XX disorders affecting development and cell differentiation, e.g. aging,  
XX cancer, schizophrenia, alopecia, diabetes, rheumatoid arthritis, or  
XX infertility.  
XX  
XX PS Claim 3; SEQ ID NO 282; 35pp; English.

CC The invention comprises novel human gene trapped sequences (GTSs) which  
CC are useful in gene discovery and as markers for gene expression analysis,  
CC forensic analysis, and determining the genetic basis of human disease.  
CC The human GTSs of the invention are useful for diagnosing and treating  
CC disorders affecting development and cell differentiation, such as: aging,  
CC cancer, autoimmune disease, lupus, scleroderma, Crohn's disease, multiple  
CC sclerosis, inflammatory bowel disease, immune disorders, schizophrenia,  
CC psychosis, alopecia, glandular disorders, inflammatory disorders, ataxia  
CC telangiectasia, diabetes, skin disorders, osteoarthritis, rheumatoid

CC arthritic, high blood pressure, atherosclerosis, cardiovascular disease,  
 CC pulmonary disease, degenerative disease of neural or skeletal systems,  
 CC Alzheimer's disease, Parkinson's disease, osteoporosis, asthma,  
 CC developmental disorder, genetic birth defects, infertility, epithelial  
 CC ulcerations, and infections. The present nucleic acid represents a human  
 CC cDNA of the invention. NOTE: The present sequence is not shown in the  
 CC specification, but has been retrieved from the USPTO web site.  
 XX

Sequence 380 BP; 93 A; 103 C; 78 G; 105 T; 0 U; 1 Other;  
 Query Match 1.5%; Score 46; DB 14; Length 380;  
 Best Local Similarity 100.0%; Pred. No. 1.1e-10;  
 Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3071 CAAGATTGTGCACTGCACTCCAGCTGGGCAACAGAGCAAGACTC 3116  
 Db 49 CAAGATTGTGCACTGCACTCCAGCTGGGCAACAGAGCAAGACTC 4

RESULT 82  
 ABL83398/c  
 ID ABL83398 standard; cDNA; 405 BP.  
 XX

AC ABL83398;  
 XX

DT 17-MAY-2002 (first entry)  
 XX

DE Human ovarian cancer related cDNA clone SEQ ID NO:6376.  
 XX

KW Human; ovarian cancer; ovarian tumour; cytostatic; gene; ss.  
 XX

OS Homo sapiens.  
 XX

PN WO200192581-A2.  
 XX

PD 06-DEC-2001.  
 XX

PF 29-MAY-2001; 2001WO-US017756.  
 XX

PR 26-MAY-2000; 2000US-0207484P.  
 XX

XX (CORI-) CORIXA CORP.  
 PA

PI Algate PA, Harlocker SL, Jones R;  
 XX

DR WPI; 2002-122075/16.  
 XX

PT Composition for therapy and diagnosis of ovarian cancer comprising  
 PT polypeptide of a ovarian tumor polypeptide, polynucleotide encoding  
 PT polypeptide, antibody specific to polypeptide or T cell expressing  
 PT polypeptide.  
 XX

PS Claim 1; SEQ ID NO 6376; 489pp; English.  
 XX

XX The present invention describes a composition (I) comprising: carriers  
 CC and immunostimulants; and a polypeptide (II) of a ovarian tumor  
 CC polypeptide encoded by a polynucleotide (III) having a cDNA sequence (S1)  
 CC from the 10912 nucleotide sequences as given in ABL77023 to ABL87934,  
 CC (III) encoding (II) having a sequence (S2), a T cell population of (II),  
 CC or antigen presenting cells that express (II). (I) has cytostatic  
 CC activity. An oligonucleotide (IV) that hybridises to (S1) can be used for  
 CC detecting ovarian cancer in a patient's biological sample preferably  
 CC serum or ovarian tissue. The method comprises contacting a biological  
 CC sample from a patient with (IV), detecting the amount of polynucleotide  
 CC hybridising to (IV) and comparing the amount to a predetermined cutoff  
 CC value and thereby detecting ovarian cancer in the patient, where the  
 CC amount of polynucleotide hybridising to (IV) is detected preferably by  
 CC polymerase chain reaction (PCR). (I) comprising (III) and/or (II) is  
 CC useful for stimulating and/or expanding T cells specific for an ovarian  
 CC tumour protein comprising contacting T cells with (III) or (II). (III) is  
 CC useful in design and preparation of ribozyme molecules for inhibiting  
 CC expression of the tumour polypeptides and proteins in tumour cells; and  
 CC to isolate a full length gene from a suitable library e.g., a tumour cDNA

CC library using well known techniques  
 XX

Sequence 405 BP; 84 A; 114 C; 95 G; 112 T; 0 U; 0 Other;  
 SQ

Query Match 1.5%; Score 46; DB 6; Length 405;  
 Best Local Similarity 100.0%; Pred. No. 1.1e-10;  
 Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3071 CAAGATTGTGCACTGCACTCCAGCTGGGCAACAGAGCAAGACTC 3116  
 Db 106 CAAGATTGTGCACTGCACTCCAGCTGGGCAACAGAGCAAGACTC 61

RESULT 83  
 ADL43370/c  
 ID ADL43370 standard; DNA; 458 BP.  
 XX

AC ADL43370;  
 XX

DT 20-MAY-2004 (first entry)  
 XX

DE Human ovarian cancer DNA marker #17260.  
 XX

KW Human; ovarian cancer; ds; tumour; cytostatic; DNA marker.  
 XX

OS Homo sapiens.  
 XX

PN WO200170979-A2.  
 XX

PD 27-SEP-2001.  
 XX

XX 21-MAR-2001; 2001WO-US009126.  
 PF

XX 21-MAR-2000; 2000US-0191031P.  
 PR

XX 25-MAY-2000; 2000US-0207124P.  
 PR

XX 15-JUN-2000; 2000US-0211940P.  
 PR

XX 07-JUL-2000; 2000US-0216820P.  
 PR

XX 25-JUL-2000; 2000US-0220661P.  
 PR

XX 21-DEC-2000; 2000US-0257672P.  
 PR

PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.  
 XX

XX Lee J, Little J;  
 PI

XX WPI; 2001-611502/70.  
 DR

XX Novel isolated nucleic acid molecules (markers) overexpressed in ovarian  
 PT cancer cells as compared to their normal non-cancerous ovarian cells are  
 PT used to characterize stage, grade, histological type of ovarian cancer.  
 PT

PS Disclosure; SEQ ID NO 17260; 106pp; English.  
 XX

XX The invention relates to nucleic acid markers which are overexpressed in  
 CC ovarian cancer cells as compared to their expression in normal (i.e. non-  
 CC cancerous) ovarian cells. The invention also relates to polypeptides  
 CC encoded by the markers, antibodies that selectively bind to the  
 CC polypeptides, a method of inhibiting ovarian cancer in a patient at risk  
 CC of developing ovarian cancer involving inhibiting expression of a gene  
 CC corresponding to a marker of the invention and a method of treating a  
 CC patient afflicted with ovarian cancer comprising providing to cells of  
 CC the patient an antisense oligonucleotide complementary to a marker of the  
 CC invention. The markers are useful for assessing if a patient is afflicted  
 CC with ovarian cancer, which involves comparing the level of expression of  
 CC a marker in a patient sample and a normal level of expression of the  
 CC marker in a control non-ovarian cancer sample. A difference between the  
 CC expression levels indicates ovarian cancer. The level of expression of a  
 CC marker corresponds to a secreted protein or to a transcribed  
 CC polynucleotide or its portion. The level of expression of the marker is  
 CC assessed by detecting the presence in the sample, a protein or protein  
 CC fragment corresponding to the marker. The presence of protein or protein  
 CC fragment is detected using an antibody that specifically binds with the  
 CC protein or protein fragment. Alternatively, the level of expression of  
 CC the marker is assessed by detecting the presence of a transcribed

CC polynucleotide which anneals with the marker or anneals with a portion of  
CC the polynucleotide comprising the marker, under stringent conditions. The  
CC marker is also used for monitoring the progression of ovarian cancer. In a  
CC patient which involves detecting expression of the marker in a patient  
CC sample at a first point in time, repeating the method at a subsequent  
CC time and comparing the level of expression. The method is carried out  
CC using an ovarian tissue sample. A composition comprising a marker,  
CC polypeptide or antibody of the invention is used to treat ovarian cancer.  
CC This sequence represents a human ovarian cancer DNA marker of the  
CC invention.

CC SQ Sequence 458 BP; 89 A; 124 C; 126 G; 119 T; 0 U; 0 Other;

Query Match 1.5%; Score 46; DB 5; Length 458;  
Best Local Similarity 100.0%; Pred. No. 1.1e-10;  
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2895 GGTGATCACCCTGAGGCCAGAGTTCCAGACCAGCCTGGCCAACT 2940  
DB 405 GGTGATCACCCTGAGGCCAGAGTTCCAGACCAGCCTGGCCAACT 360

RESULT 84  
ABV60535  
ID ABV60535 standard; cDNA; 497 BP.  
XX  
XX ABV60535;  
AC  
XX  
XX 13-SEP-2002 (first entry)  
DT  
XX  
XX Human prostate expression marker CDNA 60526.  
DE  
XX  
XX Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;  
KM pharmacogenomic marker; gene; ss.  
KW  
XX  
XX Homo sapiens.  
OS  
XX WO200160860-A2.  
PN  
XX  
XX 23-AUG-2001.  
PD  
XX  
XX 20-FEB-2001; 2001WO-US005171.  
PF  
XX  
XX 17-FEB-2000; 2000US-0183319P.  
PR 16-MAR-2000; 2000US-0189862P.  
PR 25-MAY-2000; 2000US-0207454P.  
PR 09-JUN-2000; 2000US-0211314P.  
PR 18-JUL-2000; 2000US-0219007P.  
PR 13-DEC-2000; 2000US-0255281P.  
XX  
XX  
XX (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.  
PA  
XX  
XX Schlegel R, Endege WO, Monahan JE;  
PI  
XX  
XX WPI; 2001-662795/76.  
DR  
XX  
XX Novel isolated nucleic acid molecule associated with cancerous state of  
PT prostate cells and correlating with presence of prostate cancer, useful  
PT for detecting presence of prostate cancer, stage of prostate cancer.  
XX  
XX  
XX Claim 1; Page 11527; 11750pp; English.

CC ; (1) is also useful as a pharmacodynamic or pharmacogenomic marker  
XX  
SQ Sequence 497 BP; 145 A; 101 C; 133 G; 118 T; 0 U; 0 Other;

Query Match 1.5%; Score 46; DB 5; Length 497;  
Best Local Similarity 100.0%; Pred. No. 1.1e-10;  
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2895 GGTGATCACCCTGAGGCCAGAGTTCCAGACCAGCCTGGCCAACT 2940  
DB 192 GGTGATCACCCTGAGGCCAGAGTTCCAGACCAGCCTGGCCAACT 237

RESULT 85  
AAH18284/C  
ID AAH18284 standard; cDNA; 2537 BP.  
XX  
XX AAH18284;  
AC  
XX  
XX 26-JUN-2001 (first entry)  
DT  
XX  
XX Human CDNA sequence SEQ ID NO:18263.  
DE  
XX  
XX Human; primer; detection; diagnosis; antisense therapy; gene therapy; ss.  
KM  
XX  
XX Homo sapiens.  
OS  
XX EP1074617-A2.  
PN  
XX  
XX 07-FEB-2001.  
PD  
XX  
XX 28-JUL-2000; 2000BP-00116126.  
PF  
XX  
XX 29-JUL-1999; 99JP-00248036.  
PR 27-AUG-1999; 99JP-00300253.  
PR 11-JAN-2000; 2000JP-00118776.  
PR 02-MAY-2000; 2000JP-00183767.  
PR 09-JUN-2000; 2000JP-00241899.  
XX  
XX  
XX (HELI-) HELIX RES INST.  
PA  
XX  
XX Ota T, Isegai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;  
PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;  
PI  
XX  
XX WPI; 2001-318749/34.  
DR  
XX  
XX Primer sets for synthesizing polynucleotides, particularly the 5602 full-  
PT length CDNA defined in the specification, and for the detection and/or  
PT diagnosis of the abnormality of the proteins encoded by the full-length  
PT CDNA's.

PS Claim 8; SEQ ID NO 18263; 2537p + Sequence Listing; English.

XX  
XX  
XX The present invention describes primer sets for synthesizing 5602 full-  
CC length CDNA's defined in the specification. Where a primer set comprises:  
CC (a) an oligo-dT primer and an oligonucleotide complementary to the  
CC complementary strand of a polynucleotide which comprises one of the 5602  
CC nucleotide sequences defined in the specification, where the  
CC oligonucleotide comprises at least 15 nucleotides; or (b) a combination  
CC of an oligonucleotide comprising a sequence complementary to the  
CC complementary strand of a polynucleotide which comprises a 5'-end  
CC sequence and an oligonucleotide comprising a sequence complementary to a  
CC polynucleotide which comprises a 3'-end sequence, where the  
CC oligonucleotide comprises at least 15 nucleotides and the combination of  
CC the 5'-end sequence/3'-end sequence is selected from those defined in the  
CC specification. The primer sets can be used in antisense therapy and in  
CC gene therapy. The primers are useful for synthesizing polynucleotides,  
CC particularly full-length CDNA's. The primers are also useful for the  
CC detection and/or diagnosis of the abnormality of the proteins encoded by  
CC the full-length CDNA's. The primers allow obtaining of the full-length  
CC CDNA's easily without any specialised methods. AAH03166 to AAH13628 and  
CC AAH13633 to AAH18742 represent human CDNA sequences; AAB92446 to AAB95893  
CC represent human amino acid sequences; and AAH13629 to AAH13632 represent

CC oligonucleotides, all of which are used in the exemplification of the  
CC present invention

XX Sequence 2537 BP; 756 A; 503 C; 473 G; 805 T; 0 U; 0 Other;

XX Query Match 1.5%; Score 46; DB 4; Length 2537;

XX Best Local Similarity 100.0%; Pred. No. 1.1e-10;

XX Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX 2895 GGTGGATCACTGAGCCAGAGTTTCAGACCAAGCTGGCCACAT 2940

XX Db 1359 GGTGGATCACTGAGCCAGAGTTTCAGACCAAGCTGGCCACAT 1314

# RESULT 86

ADY15647

ID ADY15647 standard; DNA; 6530 BP.

XX ADY15647;

XX 05-MAY-2005 (first entry)

XX DNA encoding a PRO polypeptide, SEQ ID NO 1453.

XX Antinflammatory; Immune disorder; Dermatological; Immunosuppressive;

XX Antirheumatic; Antiarthritic; Osteopathic; Hemostatic; Antianemic;

XX Antihypertrophic; Antidiabetic; Nephrotropic; CNS-Gen.; Hepatotropic;

XX Virucide; Gastrointestinal-Gen.; Antipneumatic; Antistomatitic;

XX Antiallergic; der. gene; diagnosis.

XX Homo sapiens.

XX WO2005016962-A2.

XX 24-FEB-2005.

XX 11-AUG-2004; 2004WO-US026249.

XX 11-AUG-2003; 2003US-0493546P.

XX (GETH ) GENENTECH INC.

XX Abbas A, Clark H, Ouyang W, Williams MP, Wood WI, Wu TD;

XX WPI; 2005-182330/19.

XX New nucleic acid encoding PRO polypeptide, useful for diagnosing and

XX treating an immune related disorder, e.g. systemic lupus erythematosus,

XX rheumatoid arthritis, osteoarthritis, thyroiditis, or diabetes mellitus.

XX Claim 1; SEQ ID NO 1453; 158pp; English.

XX The invention relates to an isolated nucleic acid encoding a PRO

XX polypeptide. The polypeptide, agonist or an antagonist, antibody,

XX composition, and method are useful for diagnosing and treating an immune

XX related disorder, e.g. systemic lupus erythematosus, rheumatoid

XX arthritis. The present sequence represents a DNA encoding a PRO

XX polypeptide.

XX SQ Sequence 6530 BP; 1644 A; 1400 C; 1429 G; 2057 T; 0 U; 0 Other;

XX Query Match 1.5%; Score 46; DB 14; Length 6530;

XX Best Local Similarity 100.0%; Pred. No. 1e-10;

XX Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX 2895 GGTGGATCACTGAGCCAGAGTTTCAGACCAAGCTGGCCACAT 2940

XX Db 3499 GGTGGATCACTGAGCCAGAGTTTCAGACCAAGCTGGCCACAT 3544

XX 2895 GGTGGATCACTGAGCCAGAGTTTCAGACCAAGCTGGCCACAT 2940

XX Db 3499 GGTGGATCACTGAGCCAGAGTTTCAGACCAAGCTGGCCACAT 3544

# RESULT 87

ACC82887/C

ID ACC82887 standard; DNA; 7001 BP.

XX ACC82887;

XX 27-AUG-2003 (first entry)

XX Human thyroid hormone receptor interactor 6 (TRIP6) gene fragment.

XX Human; antitense; thyroid hormone receptor interactor 6; TRIP6; tumour;

XX OPA-interacting protein-1; OIP-1; zyxin-related protein-1; prophylaxis;

XX inflammation; therapy; hyperproliferative disorder; infection; cancer;

XX chromosome 7q22; ZNF-1; de.

XX Homo sapiens.

XX Key

XX Location/Qualifiers

XX 486..740

XX /tag= a

XX /number= 1

XX /tag= b

XX /number= 1

XX /tag= c

XX /number= 2

XX /tag= d

XX /number= 2

XX /tag= e

XX /number= 3

XX /tag= f

XX /number= 3

XX /tag= g

XX /number= 4

XX /tag= h

XX /number= 4

XX /tag= i

XX /number= 5

XX /tag= j

XX /number= 5

XX /tag= k

XX /number= 6

XX /tag= l

XX /number= 6

XX /tag= m

XX /number= 7

XX /tag= n

XX /number= 7

XX /tag= o

XX /number= 8

XX /tag= p

XX /number= 8

XX /tag= q

XX /number= 9

XX /tag= r

XX /number= 9

XX /tag= s

XX /number= 10

XX /tag= t

XX /number= 11

XX /tag= u

XX /number= 12

XX /tag= v

XX /number= 13

XX /tag= w

XX /number= 14

XX /tag= x

XX /number= 15

XX /tag= y

XX /number= 16

XX /tag= z

XX /number= 17

PR	08-NOV-2001; 2001US--00008769.
XX	(ISIS-) ISIS PHARM INC.
PA	
P1	Bennett CF, Dobie K;
XX	
DR	WPI, 2003-430662/40.
XX	
PT	New antisense oligonucleotides targeted to nucleic acids encoding thyroid
PT	hormone receptor interactor 6, useful for diagnosing or treating
PT	hyperproliferative disorders, such as cancer.
PS	Example 15; Page 89-93; 111pp; English.
XX	
CC	The invention relates to antisense compounds targetted to a nucleic acid
CC	encoding thyroid hormone receptor interactor 6 (TRIP6) to inhibit its
CC	expression. TRIP6 is also known as OPA-interacting protein-1 (OIP-1) and
CC	zyrin-related protein-1 (ZRP-1). TRIP6 DNA is located on chromosome 7q22.
CC	Antisense compounds of the invention are useful for modulating the
CC	expression of TRIP6 and for treating diseases or conditions associated
CC	with the expression of TRIP6 such as hyperproliferative disorders (e.g.
CC	cancer). They are useful for diagnostics, therapeutics, prophylaxis e.g.
CC	to prevent or delay infection, inflammation or tumour formation, as
CC	research reagents and kits and in distinguishing between functions of
CC	various members of a biological pathway. The are also useful in antisense
CC	therapy. The present sequence is human TRIP6 gene fragment
XX	
SQ	Sequence 7001 BP; 1380 A; 1954 C; 1984 G; 1683 T; 0 U; 0 Other;
	Query Match 1.5%; Score 46; DB 10; Length 7001;
	Best Local Similarity 100.0%; Pred. No. 1e-10;
	Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY	
Db	3071 CAAGATTGGGCACCTGCACTCAGCGCTGGGCAACAGACAAGACTC 3116   6054 CAAGATTGTGCCACTGCACTCAGCGCTGGGCAACAGACAAGACTC 6009
RESULT 88	
AAL06913	
ID	AAL06913 standard; DNA; 13409 BP.
XX	
AC	AAL06913;
XX	
D7	21-NOV-2001 (first entry)
XX	
DE	Human reproductive system related antigen DNA SEQ ID NO: 9601.
XX	
KW	Human; reproductive system related antigen; reproductive system disorder;
KW	cancer; gene therapy; db.
XX	
OS	Homo sapiens.
XX	
N	WO200155320-A2.
XX	
PD	02-AUG-2001.
XX	
PP	17-JAN-2001; 2001WO-US001339.
XX	
XX	31-JAN-2000; 2000US--0179065P.
PR	04-FEB-2000; 2000US--0180628P.
PR	24-FEB-2000; 2000US--0184664P.
PR	02-MAR-2000; 2000US--0186350P.
PR	16-MAR-2000; 2000US--0189874P.
PR	17-MAR-2000; 2000US--0190076P.
PR	18-APR-2000; 2000US--0198123P.
PR	19-MAY-2000; 2000US--0205515P.
PR	07-JUN-2000; 2000US--0209467P.
PR	28-JUN-2000; 2000US--0214886P.
PR	30-JUN-2000; 2000US--0215135P.
PR	07-JUL-2000; 2000US--0216647P.
PR	07-JUL-2000; 2000US--0218800P.
PR	11-JUL-2000; 2000US--0217487P.

PR	11-Jul-2000	2000US-02174466
PR	14-Jul-2000	2000US-02182830
PR	26-Jul-2000	2000US-02209636
PR	26-Jul-2000	2000US-02209646
PR	14-Aug-2000	2000US-02245181
PR	14-Aug-2000	2000US-02245196
PR	14-Aug-2000	2000US-02252136
PR	14-Aug-2000	2000US-02252146
PR	14-Aug-2000	2000US-02252666
PR	14-Aug-2000	2000US-02252676
PR	14-Aug-2000	2000US-02252686
PR	14-Aug-2000	2000US-02252706
PR	14-Aug-2000	2000US-02254476
PR	14-Aug-2000	2000US-02257576
PR	14-Aug-2000	2000US-02257586
PR	14-Aug-2000	2000US-02257596
PR	18-Aug-2000	2000US-02262796
PR	22-Aug-2000	2000US-02266616
PR	22-Aug-2000	2000US-02268686
PR	22-Aug-2000	2000US-02271826
PR	30-Aug-2000	2000US-02270096
PR	30-Aug-2000	2000US-02289246
PR	01-Sep-2000	2000US-02292876
PR	01-Sep-2000	2000US-02293436
PR	01-Sep-2000	2000US-02293446
PR	01-Sep-2000	2000US-02293456
PR	05-Sep-2000	2000US-02295096
PR	05-Sep-2000	2000US-02295436
PR	06-Sep-2000	2000US-02304376
PR	06-Sep-2000	2000US-02304386
PR	08-Sep-2000	2000US-02312426
PR	08-Sep-2000	2000US-02312436
PR	08-Sep-2000	2000US-02312446
PR	08-Sep-2000	2000US-02314136
PR	08-Sep-2000	2000US-02314146
PR	08-Sep-2000	2000US-02320806
PR	12-Sep-2000	2000US-02319686
PR	14-Sep-2000	2000US-02323376
PR	14-Sep-2000	2000US-02323386
PR	14-Sep-2000	2000US-02323396
PR	14-Sep-2000	2000US-02324006
PR	14-Sep-2000	2000US-02324016
PR	14-Sep-2000	2000US-02324016
PR	21-Sep-2000	2000US-02342236
PR	21-Sep-2000	2000US-02342246
PR	21-Sep-2000	2000US-02349976
PR	25-Sep-2000	2000US-02349986
PR	25-Sep-2000	2000US-02354846
PR	27-Sep-2000	2000US-02358946
PR	27-Sep-2000	2000US-02358966
PR	29-Sep-2000	2000US-02363676
PR	29-Sep-2000	2000US-02363686
PR	29-Sep-2000	2000US-02363696
PR	29-Sep-2000	2000US-02363706
PR	02-Oct-2000	2000US-02368026
PR	02-Oct-2000	2000US-02370386
PR	02-Oct-2000	2000US-02370396
PR	02-Oct-2000	2000US-02370396
PR	02-Oct-2000	2000US-02370406
PR	13-Oct-2000	2000US-02393956
PR	13-Oct-2000	2000US-02393976
PR	13-Oct-2000	2000US-02409606
PR	20-Oct-2000	2000US-02412186
PR	20-Oct-2000	2000US-02412186
PR	20-Oct-2000	2000US-02417866
PR	20-Oct-2000	2000US-02417876
PR	20-Oct-2000	2000US-02418086
PR	20-Oct-2000	2000US-02418096
PR	20-Oct-2000	2000US-02418656

PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0246474P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249246P.  
PR 17-NOV-2000; 2000US-0249255P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249299P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0256719P.  
PR 06-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251868P.  
PR 08-DEC-2000; 2000US-0251869P.  
PR 08-DEC-2000; 2000US-0251989P.  
PR 08-DEC-2000; 2000US-0251990P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0259678P.  
XX  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX  
XX Rosen CA, Barash SC, Ruben SM;  
XX WPI; 2001-465570/50.  
XX  
XX Isolated nucleic acid molecule encoding a reproductive system antigen is  
XX used in preventing, treating or ameliorating a medical condition.  
XX  
XX  
XX Disclosure; SEQ ID NO 9601; 1297pp + Sequence Listing; English.  
XX  
XX The present invention provides the protein and coding sequences of a  
XX number of human reproductive system related antigens. These can be used  
XX in the prevention and treatment of reproductive system disorders,  
XX including cancer. The present sequence is a genomic sequence encoding a  
XX protein of the invention  
XX  
XX Sequence 13409 BP; 3673 A; 2774 C; 2856 G; 4106 T; 0 U; 0 Other;  
Query Match 1.5%; Score 46; DB 4; Length 13409;  
Best Local Similarity 100.0%; Pred. No. 1e-10;  
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3071 CAGATTGTGCACCTGCACTCCAGCTTGCGCAACAGACGAACTC 3116  
Db 12121 CAGATTGTGCACCTGCACTCCAGCTTGCGCAACAGACGAACTC 12166  
RESULT 89  
ID ABA08135  
XX ABA08135 standard; DNA; 13409 BP.  
AC  
XX ABA08135;  
XX  
DT 11-JAN-2002 (first entry)  
XX  
XX Human ovarian and breast cancer associated polymucleotide SEQ ID NO 930.  
DE  
XX Cytostatic; immunosuppressive; nootropic; neuroprotective; antiviral;  
XX antileukemic; hepatotropic; antidiabetic; antiinflammatory; antitumor;  
XX antiviral; anticonvulsant; antibacterial; antifungal; antiparasitic;  
XX cardiant; gene therapy; cancer; immune disorder; cardiovascular disorder;  
XX neurological disease; infection; human; secreted protein; ds.  
XX  
XX Homo sapiens.  
XX  
XX W0200155325-A2.  
XX  
XX 02-AUG-2001.  
XX  
XX 17-JAN-2001; 2001WO-US001345.  
XX  
XX 31-JAN-2000; 2000US-0179065P.  
XX 04-FEB-2000; 2000US-0180628P.  
XX 24-FEB-2000; 2000US-0184664P.  
XX 02-MAR-2000; 2000US-0186350P.  
XX 16-MAR-2000; 2000US-0189874P.  
XX 17-MAR-2000; 2000US-0190076P.  
XX 18-APR-2000; 2000US-0198123P.  
XX 19-MAY-2000; 2000US-0205515P.  
XX 07-JUN-2000; 2000US-0209467P.  
XX 28-JUN-2000; 2000US-0214886P.  
XX 30-JUN-2000; 2000US-0215335P.  
XX 07-JUL-2000; 2000US-0216647P.  
XX 07-JUL-2000; 2000US-0216880P.  
XX 11-JUL-2000; 2000US-0217487P.  
XX 14-AUG-2000; 2000US-0217496P.  
XX 14-JUL-2000; 2000US-0218290P.  
XX 26-JUL-2000; 2000US-0220963P.  
XX 26-JUL-2000; 2000US-0220964P.  
XX 14-AUG-2000; 2000US-0224518P.  
XX 14-AUG-2000; 2000US-0224519P.  
XX 14-AUG-2000; 2000US-0224519P.  
XX 14-AUG-2000; 2000US-0225213P.  
XX 14-AUG-2000; 2000US-0225213P.  
XX 14-AUG-2000; 2000US-0225266P.  
XX 14-AUG-2000; 2000US-0225267P.  
XX 14-AUG-2000; 2000US-0225268P.  
XX 14-AUG-2000; 2000US-0225270P.  
XX 14-AUG-2000; 2000US-0225447P.  
XX 14-AUG-2000; 2000US-0225757P.  
XX 14-AUG-2000; 2000US-0225758P.  
XX 14-AUG-2000; 2000US-0225759P.  
XX 18-AUG-2000; 2000US-0226279P.  
XX 22-AUG-2000; 2000US-0226681P.  
XX 22-AUG-2000; 2000US-0226688P.  
XX 22-AUG-2000; 2000US-0227182P.  
XX 23-AUG-2000; 2000US-0227009P.  
XX 30-AUG-2000; 2000US-0228924P.  
XX 01-SEP-2000; 2000US-0229287P.  
XX 01-SEP-2000; 2000US-0229343P.  
XX 01-SEP-2000; 2000US-0229344P.  
XX 01-SEP-2000; 2000US-0229345P.  
XX 05-SEP-2000; 2000US-0229599P.  
XX 05-SEP-2000; 2000US-0229513P.  
XX 06-SEP-2000; 2000US-0230437P.  
XX 06-SEP-2000; 2000US-0230438P.





XX Homo sapiens.  
OS  
XX WO200155343-A1.  
PN  
XX 02-AUG-2001.  
PD  
XX  
PF 17-JAN-2001; 2001WO-US001322.  
XX  
PR 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 11-JUL-2000; 2000US-0217496P.  
PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225266P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226868P.  
PR 23-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230437P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232080P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 12-SEP-2000; 2000US-0231968P.  
PR 14-SEP-2000; 2000US-0232397P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
XX

PR 26-SEP-2000; 2000US-0235484P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235836P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236357P.  
PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0236802P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 02-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239935P.  
PR 13-OCT-2000; 2000US-0239937P.  
PR 20-OCT-2000; 2000US-0240960P.  
PR 20-OCT-2000; 2000US-0241221P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241826P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0246474P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249246P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249299P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250150P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0256719P.  
PR 06-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251868P.  
PR 08-DEC-2000; 2000US-0251869P.  
PR 08-DEC-2000; 2000US-0251989P.  
PR 08-DEC-2000; 2000US-0251990P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0259678P.  
XX

PA (HUMA-) HUMAN GENOME SCI INC.  
XX Rosen CA, Barash SC, Ruben SM;  
XX WPI, 2001-565190/63.  
XX  
PT Nucleic acid encoding novel connective tissue associated polypeptides,  
PT used in diagnosing, preventing, treating or ameliorating a disorder such  
PT as cancer or rheumatoid arthritis.  
XX  
PS Disclosure; SEQ ID NO 1916; 673bp; English.  
XX  
CC The present invention relates to the isolation of novel human connective  
CC tissue related polypeptides (AAU86435-AAU86923) and the polynucleotide  
CC (cDNA and genomic) sequences encoding them. The sequences of the  
CC invention are useful in the diagnosis, treatment, prevention and/or  
CC prognosis of diseases associated with connective tissue(s), including  
CC cancer. The polynucleotide sequences of the invention are also useful in  
CC gene therapy. ABK42102-ABK43116 represent genomic sequences encoding the  
CC novel human connective tissue related polypeptides. Note: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format directly from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX  
SQ Sequence 18501 BP; 5504 A; 3746 C; 3948 G; 5301 T; 0 U; 2 Other;  
Query Match 1.5%; Score 46; DB 4; Length 18501;  
Best Local Similarity 100.0%; Pred. No. 9.9e-11;  
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
OY 3071 CAAGATTGCGCAGCTGCACTCCAGGCTGGGCAACAGAGCAAGACTC 3116  
DB 224 CAAGATTGCGCAGCTGCACTCCAGGCTGGGCAACAGAGCAAGACTC 269  
RESULT 91  
ADB61185  
ID ADB61185 standard; DNA; 18501 BP.  
XX  
AC ADB61185;  
XX  
DT 04-DEC-2003 (first entry)  
XX  
DE Connective tissue related genomic DNA #928.  
XX  
XX cytostatic; neuroprotective; nootropic; antiparkinsonian; cardiovascular;  
XX antiarteriosclerotic; immunosuppressive; antirheumatic; antiarthritic;  
XX antiinflammatory; antiallergic; antibacterial; dermatological;  
XX nephrotoxic; virucide; fungicide; antibacterial; antiparasitic;  
XX gene therapy; ds; connective tissues disorder; rheumatoid arthritis;  
XX systemic lupus erythematosus; scleroderma; Sjogren's syndrome; cancer;  
XX cancer metastasis; neoplasia; leukaemia; neurodegenerative disorder;  
XX Alzheimer's disease; Parkinson's disease; cardiovascular disease;  
XX atherosclerosis; myocarditis; cardiopulmonary bypass complication;  
XX autoimmune diseases; multiple sclerosis; allergic reaction; asthma;  
XX rhinitis; eczema; inflammatory condition; Crohn's disease; nephritis;  
XX gastrointestinal disorder; inflammatory bowel disease;  
XX organ transplant rejection; immune system disorder; Bruton's disease;  
XX X-linked lymphoproliferative syndrome;  
XX B-cell lymphoproliferative disorder; HIV; AIDS; infection;  
XX chromosome identification; chromosome mapping;  
XX connective tissue related polynucleotide; gene; ds.  
XX  
OS Homo sapiens.  
XX  
XX US2003054375-A1.  
XX  
XX 20-MAR-2003.  
XX  
XX 07-MAR-2002; 2002US-00092154.  
XX  
XX 31-JAN-2000; 2000US-0179065P.  
XX  
XX 04-FEB-2000; 2000US-0180628P.  
XX

PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214866P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-021647P.  
PR 07-JUL-2000; 2000US-021680P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 14-JUL-2000; 2000US-0217496P.  
PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225266P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226686P.  
PR 22-AUG-2000; 2000US-0227183P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0232080P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 12-SEP-2000; 2000US-0231968P.  
PR 14-SEP-2000; 2000US-0233397P.  
PR 14-SEP-2000; 2000US-0233398P.  
PR 14-SEP-2000; 2000US-0233399P.  
PR 14-SEP-2000; 2000US-0233400P.  
PR 14-SEP-2000; 2000US-0233401P.  
PR 14-SEP-2000; 2000US-0233403P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 26-SEP-2000; 2000US-0235484P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236367P.  
PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 29-SEP-2000; 2000US-0236802P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR



CC secreted proteins. The DNA and protein sequences of the invention are  
CC useful for detecting, preventing, diagnosing, prognosticating, treating  
CC or ameliorating: haematopoietic or haematological disorders (e.g. anaemia  
CC and haemophilia); inflammatory disorders (e.g. inflammatory bowel disease  
CC and Crohn's disease); neoplastic disease (e.g. cancer and leukaemia);  
CC wound healing and disorders of epithelial cell proliferation; immune  
CC cardiovascular disorders (e.g. autoimmune disorders and asthmatic disorders);  
CC infectious disease (e.g. HIV/AIDS); endocrine disorders (e.g. diabetes);  
CC and gastrointestinal disorders (e.g. duodenal ulcers and  
CC gastroenteritis). The present DNA sequence was used in the  
CC exemplification of the invention.  
XX  
SQ Sequence 18501 BP; 5301 A; 3948 C; 3746 G; 5504 T; 0 U; 2 Other;  
  
Query Match 1.5%; Score 46; DB 10; Length 18501;  
Best Local Similarity 100.0%; Pred. No. 9.9e-11;  
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 3071 CAAGATTGTGGCAGTCGACTCCAGCCTGGGCAACAGAGACACTC 3116  
DB 18278 CAAGATTGTGGCAGTCGACTCCAGCCTGGGCAACAGAGACACTC 18233  
|||||  
  
RESULT 93  
ID ABT17021 standard; DNA; 18501 BP.  
XX  
XX ABT17021;  
XX  
XX  
DT 03-APR-2003 (first entry)  
XX  
XX  
DE Human secreted protein-related DNA sequence - SEQ ID NO 375.  
XX  
XX Human; gene; ds; protein therapy; immediate hypersensitivity disease;  
KW allergic disorder; asthmatic disorder; gene therapy; secreted protein;  
KW hay fever; allergic conjunctivitis; allergic rhinitis;  
KW binding partner identification; chromosome identification;  
KW radiation hybrid mapping; long-range restriction mapping.  
XX  
XX Homo sapiens.  
XX  
XX WO200277186-A2.  
XX  
XX 03-OCT-2002.  
XX  
XX 26-MAR-2002; 2002WO-US009239.  
XX  
XX 27-MAR-2001; 2001US-0278650P.  
XX  
XX 12-SEP-2001; 2001US-00950082.  
XX  
XX 12-SEP-2001; 2001US-00950083.  
XX  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX  
XX  
XX Rosen CA, Ruben SM;  
XX  
XX WPI; 2003-175010/17.  
XX  
XX  
XX Use of human secreted proteins and nucleic acids for preparing a  
PT diagnostic or pharmaceutical composition for diagnosing or treating  
PT allergic or asthmatic disorders, e.g. asthma, hay fever, or allergic  
PT conjunctivitis or rhinitis.  
XX  
XX  
XX Disclosure; Page 810-815; 823pp; English.  
XX  
XX The invention comprises the amino acid and coding sequences of human  
CC secreted proteins. The DNA and protein sequences of the invention are  
CC useful for the diagnosis and treatment of allergic disorders, asthmatic  
CC disorders and immediate hypersensitivity diseases (e.g. hay fever,  
CC allergic conjunctivitis and allergic rhinitis). The proteins of the  
CC invention are also useful for identifying a binding partner. The nucleic  
CC acids of the invention are also useful for chromosome identification,  
CC radiation hybrid mapping or long-range restriction mapping. The present

CC DNA sequence represents a human secreted protein-related DNA sequence  
XX  
SQ Sequence 18501 BP; 5301 A; 3948 C; 3746 G; 5504 T; 0 U; 2 Other;  
  
Query Match 1.5%; Score 46; DB 10; Length 18501;  
Best Local Similarity 100.0%; Pred. No. 9.9e-11;  
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 3071 CAAGATTGTGGCAGTCGACTCCAGCCTGGGCAACAGAGACACTC 3116  
DB 18278 CAAGATTGTGGCAGTCGACTCCAGCCTGGGCAACAGAGACACTC 18233  
|||||  
  
RESULT 94  
ID ABZ68161 standard; DNA; 18501 BP.  
XX  
XX ABZ68161;  
XX  
XX 26-MAR-2003 (first entry)  
XX  
XX  
DE Human secreted protein encoding genomic DNA SEQ ID NO 1684.  
XX  
XX  
XX Human; secreted protein; nootropic; neuroprotective; cyostatic;  
KW virocid; dermatological; immunosuppressive; antiinflammatory; anti-HIV;  
KW vulnery; antibacterial; antiparkinsonian; antischlick; antianaemic;  
KW antiarthritic; cancer; antirheumatic; hepatotropic; cerebroprotective;  
KW antiinflammatory; antiallergic; antidiabetic; antitumor; anticonvulsant;  
KW antifungal; antiparasitic; cardiac; immune disorder; infection; vaccine;  
KW cardiovascular disorder; neurological disease; nephrotropic;  
KW gene therapy; gene; ds.  
XX  
XX  
XX Homo sapiens.  
XX  
XX WO200277186-A2.  
XX  
XX 03-OCT-2002.  
XX  
XX 26-MAR-2002; 2002WO-US009188.  
XX  
XX 27-MAR-2001; 2001US-0278650P.  
XX  
XX 12-SEP-2001; 2001US-00950082.  
XX  
XX 12-SEP-2001; 2001US-00950083.  
XX  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX  
XX  
XX Rosen CA, Ruben SM;  
XX  
XX WPI; 2003-040583/03.  
XX  
XX  
XX New human secreted proteins encoded by genes contained in cDNA clones  
PT (e.g. HGAC19), useful for preventing, treating or diagnosing e.g. AIDS,  
PT multiple sclerosis, herpes virus, leukemia, tick-borne encephalitis or  
PT West Nile fever.  
XX  
XX  
XX Disclosure; Page 2321-2325; 2423pp; English.  
XX  
XX The invention relates to novel human genes (ABZ66891-ABZ68209) and the  
CC encoded secreted proteins (ABP99470-ABP99872) useful for preventing,  
CC treating or ameliorating medical conditions e.g. by protein or gene  
CC therapy. The genes are isolated from a range of human tissues disclosed  
CC in the specification. The nucleic acids, proteins, antibodies and  
CC (ant)agonists are useful in the diagnosis, treatment and prevention of:  
CC (a) cancer, e.g. breast and ovarian cancer and other cancers of the  
CC adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver,  
CC lung or urogenital; (b) immune disorders e.g. Addison's disease,  
CC allergies, autoimmune haemolytic anaemia, autoimmune thyroiditis,  
CC diabetes mellitus, Crohn's disease, multiple sclerosis, rheumatoid  
CC arthritis and ulcerative colitis; (c) cardiovascular disorders such as  
CC myocardial ischaemias; (d) wound healing; (e) neurological diseases e.g.  
CC cerebral anoxia and epilepsy; and (f) infectious diseases such as viral,  
CC bacterial, fungal and parasitic infections

SQ Sequence 18501 BP, 5301 A, 3948 C, 3746 G, 5504 T, 0 U, 2 Other;  
Query Match 1.5%; Score 46; DB 10; Length 18501;  
Best Local Similarity 100.0%; Pred. No. 9.9e-11;  
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 3071 CAAGATTGTGCGACTGCATCTCGAGCTTGGGCAACAGCAAGCAACTC 3116  
18278 CAAGATTGTGCGACTGCATCTCGAGCTTGGGCAACAGCAAGCAACTC 18233  
RESULT 95  
AD181379/c  
ID AD181379 standard; DNA; 25001 BP.  
AC AD181379;  
DT 22-APR-2004 (first entry)  
XX Human P2X4 genomic DNA sequence.  
XX  
XX antisense oligonucleotide; P2X4; P2X4-associated diseases;  
KM neurological disorder; bone disorder; osteoporosis; rheumatoid arthritis;  
KM human; ds.  
XX  
XX Homo sapiens.  
OS  
XX US2004002152-A1.  
PN  
PD 01-JAN-2004.  
XX  
XX 01-JUL-2002; 2002US-00187659.  
PP  
XX 01-JUL-2002; 2002US-00187659.  
PR  
XX 01-JUL-2002; 2002US-00187659.  
XX  
XX (ISIS-) ISIS PHARM INC.  
PA  
PI Dobie KM;  
XX  
DR WPI; 2004-081656/08.  
XX  
XX New antisense oligonucleotides for modulating P2X4 expression, useful for  
PT diagnosing, preventing or treating conditions associated with P2X4, e.g.  
PT neurological disorders, osteoporosis or rheumatoid arthritis.  
PS  
XX Example 15; SEQ ID NO 11; 67pp; English.  
XX  
XX The invention comprises antisense oligonucleotides that are targeted to a  
CC nucleic acid encoding P2X4. The antisense oligonucleotides are useful for  
CC inhibiting the expression of P2X4 in cells or tissues to treat diseases  
CC associated with P2X4 expression, such as: neurological disorders, bone  
CC disorders (e.g. osteoporosis), or rheumatoid arthritis. The present  
CC nucleic acid represents the human P2X4 genomic DNA sequence.  
XX  
SQ Sequence 25001 BP, 5940 A, 6387 C, 6220 G, 6454 T, 0 U, 0 Other;  
Query Match 1.5%; Score 46; DB 12; Length 25001;  
Best Local Similarity 100.0%; Pred. No. 9.8e-11;  
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 2895 GGTGATCATCCTGAGGCCAGAGTTTCAGACCAAGCTTGCCCAACAT 2940  
Db 2633 GGTGATCATCCTGAGGCCAGAGTTTCAGACCAAGCTTGCCCAACAT 2588  
RESULT 96  
ADH36221/c  
ID ADH36221 standard; DNA; 28616 BP.  
XX  
XX ADH36221;  
XX  
DT 11-MAR-2004 (first entry)  
XX

DE Human purinergic receptor P2X4 gene sequence.  
XX  
XX fat deposition; leanness; non-insulin dependent diabetes mellitus; NIDDM;  
KM purinergic receptor; P2X4; antidiabetic; anorectic; diabetes; obesity;  
KM human; gene; ds.  
XX  
XX Homo sapiens.  
OS  
XX Key Location/Qualifiers  
FH replace(11030,T)  
FT  
FT /tag= a  
FT /standard\_name= "Single nucleotide polymorphism"  
FT replace(14744,T)  
FT /tag= b  
FT /standard\_name= "Single nucleotide polymorphism"  
FT replace(15059,G)  
FT /tag= c  
FT /standard\_name= "Single nucleotide polymorphism"  
FT replace(15847,T)  
FT /tag= d  
FT /standard\_name= "Single nucleotide polymorphism"  
FT replace(17338,T)  
FT /tag= e  
FT /standard\_name= "Single nucleotide polymorphism"  
FT replace(21708,G)  
FT /tag= f  
FT /standard\_name= "Single nucleotide polymorphism"  
FT replace(22713,T)  
FT /tag= g  
FT /standard\_name= "Single nucleotide polymorphism"  
XX  
XX WO2003101177-A2.  
XX  
XX 11-DEC-2003.  
XX  
XX 04-JUN-2003; 2003WO-US017676.  
XX  
XX 04-JUN-2002; 2002US-0386012P.  
XX  
XX (SEQU-) SEQUENOM INC.  
XX  
XX Adam GIR, Langdown ML, Roth RB, Denislenko MF, Smylie KJ;  
PI WPI; 2004-053318/05.  
XX P-PSDB; ADH36222, ADH36223.  
DR  
XX  
XX Diagnosing predisposition to fat deposition, leanness or non-insulin  
PT dependent diabetes mellitus (NIDDM) comprises detecting the presence or  
PT absence of a polymorphic variation in a purinergic receptor.  
PS  
XX Claim 1; SEQ ID NO 1; 154pp; English.  
XX  
XX This invention relates to a novel method of diagnosing a predisposition  
CC to fat deposition, leanness or non-insulin dependent diabetes mellitus  
CC (NIDDM) in a subject. The method comprises detecting the presence or  
CC absence of a polymorphic variation associated with fat deposition,  
CC leanness or NIDDM at a polymorphic site in a purinergic receptor (P2X4)  
CC nucleotide sequence in a nucleic acid sample from a subject. The  
CC invention may be useful for the development of compounds with an  
CC antidiabetic or anorectic activity. The method is useful for diagnosing a  
CC predisposition to fat deposition, leanness or NIDDM. The nucleic acid  
CC encoding the polypeptide is useful for diagnosing conditions or diseases  
CC including fat deposition or NIDDM, also in treating diabetes and obesity.  
CC The present sequence is that of the purinergic receptor (P2X4) nucleotide  
CC sequence which was used in the method of the invention.  
XX  
SQ Sequence 28616 BP, 6868 A, 7260 C, 7008 G, 7438 T, 0 U, 42 Other;  
Query Match 1.5%; Score 46; DB 12; Length 28616;  
Best Local Similarity 100.0%; Pred. No. 9.7e-11;  
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 2895 GGTGATCATCCTGAGGCCAGAGTTTCAGACCAAGCTTGCCCAACAT 2940



CC cancer, involving determining the expression of a CA nucleic acid in a  
CC tissue. This sequence represents a human CA gene of the invention. Note:  
CC The sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences

XX Sequence 58922 BP; 13257 A; 15256 C; 16255 G; 14082 T; 0 U; 72 Other;

SQ Query Match 1.5%; Score 46; DB 13; Length 58922;

Best Local Similarity 100.0%; Pred. No. 9.5e-11;  
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3071 CAAGATTGTGCACTGCATCTCCAGCTCGGCAACAGCAAGACTC 3116

Db 53826 CAAGATTGTGCACTGCATCTCCAGCTCGGCAACAGCAAGACTC 53781

RESULT 99  
ADZ12540 standard; DNA; 70271 BP.

AC ADZ12540;

XX 16-JUN-2005 (first entry)

DE Human cancer-associated genomic DNA #7.

XX Diagnosis; DNA microarray; microarray; biochip; cancer; neoplasm;

KM cyrostatic; gene; ds.

OS Homo sapiens.

PN W02005031001-A2.

PD 07-APR-2005.

PF 23-SEP-2004; 2004WO-US031617.

PR 23-SEP-2003; 2003US-00669920.

XX (CHIR ) CHIRON CORP.

XX Morris DW, Malandro MS;

DR WPI; 2005-273395/28.

XX Nucleic acid array useful for detecting cancer associated nucleic acid,  
PT comprises two or more nucleic acid probes.

XX Disclosure; SEQ ID NO 60; 198bp; English.

CC The invention relates to a nucleic acid array for detecting a cancer  
CC associated (CA) nucleic acid, comprising two or more nucleic acid probes.

CC The invention also relates to a peptide array comprising two or more  
CC isolated polypeptides encoded by a CA nucleic acid sequence, a compound  
CC that binds to a polypeptide, an isolated antibody or its fragment which  
CC binds to a polypeptide, which is prepared by immunizing a host animal  
CC with a composition comprising the polypeptide or its antigen binding  
CC fragment and collecting cells from the host expressing antibodies against

CC the antigen or its antigen binding fragment, a composition comprising the  
CC antibody and a carrier, a method of screening for anticancer activity, a  
CC method of detecting a CA nucleic acid, a method of diagnosing cancer, a  
CC method of treating cancer and a method of inhibiting expression of a CA  
CC nucleic acid in a cell. The CA nucleic acids are useful for detecting CA

CC absence of cancer cells in an individual which involves contacting cells  
CC from the individual with the antibody and detecting a complex of a CA  
CC protein from the cancer cells and the antibody, where the detection of  
CC the complex correlates with the presence of cancer cells in the  
CC individual. The composition is useful for inhibiting growth of cancer  
CC cells in an individual or for delivering a therapeutic agent to cancer  
CC cells in an individual. The invention is also useful for diagnosing

CC cancer, for treating cancer and for inhibiting expression of a CA gene in

CC a cell. This sequence represents human cancer-associated genomic DNA of  
CC the invention.

SQ Sequence 70271 BP; 19379 A; 15870 C; 15381 G; 19641 T; 0 U; 0 Other;

QY Query Match 1.5%; Score 46; DB 14; Length 70271;

Best Local Similarity 100.0%; Pred. No. 9.4e-11;  
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3071 CAAGATTGTGCACTGCATCTCCAGCTCGGCAACAGCAAGACTC 3116

Db 42048 CAAGATTGTGCACTGCATCTCCAGCTCGGCAACAGCAAGACTC 42093

RESULT 100  
ADE95974 standard; DNA; 96594 BP.

AC ADE95974;

DT 12-FEB-2004 (first entry)

DE Human SYK gene genomic DNA sequence.

XX cancer diagnosis; cancer treatment; carcinoma; cyrostatic; gene therapy;

KM lymphoma; breast cancer; prostate cancer; leukemia; ds; human; SYK.

OS Homo sapiens.

PN W02003039484-A2.

PD 15-MAY-2003.

PF 08-NOV-2002; 2002WO-US036071.

PR 08-NOV-2001; 2001US-00052482.

XX (SAGR-) SAGRES DISCOVERY.

XX Morris DW, Engelhard EK;

DR WPI; 2003-441462/41.

XX New carcinoma associated nucleic acids and proteins, useful for screening  
PT drug candidates, or for diagnosing and treating carcinomas, e.g.  
PT lymphoma, breast cancer, prostate cancer or leukemia.

PS Claim 1; SEQ ID NO 232; 793bp; English.

CC This invention relates to novel recombinant nucleic acids for use in  
CC diagnosis and treatment of cancer, especially carcinomas, as well as the  
CC use of compositions in screening methods. The compositions of the  
CC invention may have cyrostatic activity whilst the disclosed sequences may  
CC be useful for gene therapy. The carcinoma associated nucleic acids and  
CC proteins are useful for diagnosing and treating carcinomas, for example  
CC lymphoma, breast cancer, prostate cancer or leukemia, or for screening  
CC drug candidates or bioactive agents capable of binding to, or modulating  
CC the activity of, a carcinoma associated protein. The present sequence is  
CC the genomic DNA sequence of the human SYK gene which is a carcinoma  
CC associated gene of the invention.

XX Sequence 96594 BP; 27524 A; 20558 C; 21159 G; 26914 T; 0 U; 439 Other;

SQ Query Match 1.5%; Score 46; DB 10; Length 96594;

Best Local Similarity 100.0%; Pred. No. 9.3e-11;  
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3071 CAAGATTGTGCACTGCATCTCCAGCTCGGCAACAGCAAGACTC 3116

Db 57089 CAAGATTGTGCACTGCATCTCCAGCTCGGCAACAGCAAGACTC 57134

RESULT 101



ADA02726  
ID ADA02726 standard; DNA; 96595 BP.  
XX  
AC ADA02726;  
XX  
DT 06-NOV-2003 (first entry)  
XX  
DE Human SYK carcinoma associated gene, SEQ ID NO:1244.  
XX  
KW Human; carcinoma associated; oncogene; carcinoma; cancer; breast;  
KW prostate; lymphoma; leukaemia; cytostatic; gene therapy; drug screening;  
KW gene; ds.  
XX  
OS Homo sapiens.  
XX  
PN WO2003057146-A2.  
XX  
PD 17-JUL-2003.  
XX  
PF 26-DEC-2002; 2002WO-US041414.  
XX  
PR 26-DEC-2001; 2001US-00035832.  
XX  
PR 26-DEC-2001; 2001US-00035832.  
XX  
PA (SAGR-) SAGRES DISCOVERY.  
XX  
PI Morris DW;  
XX  
DR WPI; 2003-587068/55.  
XX  
PT New recombinant nucleic acid encoding carcinoma associated protein,  
PT useful for preparing compositions for treating carcinomas.  
XX  
XX  
PS Claim 1; SEQ ID NO 1244; 245bp; English.  
XX  
XX The invention relates to recombinant carcinoma associated (CA) nucleic  
CC acid sequences from mouse and human (ADA01482-ADA03094), and to  
CC recombinant carcinoma associated proteins (CAP) encoded by them. The  
CC invention also encompasses expression vectors and host cells comprising a  
CC CA nucleic acid, a polypeptide (especially an antibody) that specifically  
CC binds to the protein, and a biochip comprising CA nucleic acid or  
CC fragments thereof. The sequences of the invention were identified using  
CC oncogenic retroviruses, which insert into the genome of the host organism  
CC at random. Many of these do not carry transduced host oncogenes or  
CC pathogenic trans-acting viral genes, meaning that cancer incidence is a  
CC direct consequence of the effects of proviral integration into host  
CC protooncogenes. The CA nucleic acid sequences can be used to diagnose  
CC carcinoma (especially breast cancer, prostate cancer, lymphoma or  
CC leukaemia) or a propensity to carcinoma by determination of the sequence  
CC of a CA gene, or by determination of CA gene expression in particular  
CC tissues. CA nucleic acids, proteins and antibodies are also useful as  
CC therapeutic agents and in screening and evaluating drug candidates. The  
CC present sequence represents a specifically claimed human CA nucleic acid  
CC sequence of the invention. Note: The complete sequence data for this  
CC patent did not form part of the printed specification, but was obtained  
CC in electronic format directly from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences.  
XX  
SQ Sequence 96595 BP; 27524 A; 20559 C; 21158 G; 26915 T; 0 U; 439 Other;

Query Match 1.5%; Score 46; DB 9; Length 96595;  
Best Local Similarity 100.0%; Pred. No. 9.3e-11;  
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3071 CAAGATTGTGCCACTGCACTCCAGCTGGGCAACAGAGCAAGACTC 3116  
DB 57090 CAAGATTGTGCCACTGCACTCCAGCTGGGCAACAGAGCAAGACTC 57135

RESULT 102  
ADB72464  
ID ADB72464 standard; DNA; 96595 BP.  
XX  
AC ADB72464;

XX  
DT 04-DEC-2003 (first entry)  
XX  
DE Human SYK gene.  
XX  
KW human; ds; cytostatic; gene therapy; vaccine; carcinoma; lymphomas;  
KW cancer; neoplasm; adenocarcinoma; sarcoma; gene.  
XX  
OS Homo sapiens.  
XX  
PN WO2003008583-A2.  
XX  
PD 30-JAN-2003.  
XX  
PF 26-DEC-2001; 2001WO-US051291.  
XX  
PR 02-MAR-2001; 2001US-00798586.  
PR 23-OCT-2001; 2001US-00004113.  
PR 08-NOV-2001; 2001US-00052482.  
PR 30-NOV-2001; 2001US-00997722.  
PR 20-DEC-2001; 2001US-00034650.  
XX  
PA (SAGR-) SAGRES DISCOVERY.  
XX  
PI Morris DW, Engelhard BK;  
XX  
DR WPI; 2003-239337/23.  
XX  
PT New recombinant nucleic acid, useful for treating carcinomas, lymphomas,  
PT cancers, neoplasm, adenocarcinoma, or sarcomas.  
XX  
XX  
PS Claim 1; SEQ ID NO 292; 2304bp; English.  
XX  
XX The invention relates to a novel recombinant nucleic acid comprising a  
CC nucleotide sequence selected from any of the 660 sequences fully defined  
CC in the specification. A polynucleotide of the invention has cytostatic  
CC activity, and may have a use in gene therapy, or in a vaccine. The  
CC recombinant nucleic acids and polypeptides are useful for treating  
CC carcinomas, e.g. lymphomas, cancers, neoplasm, adenocarcinoma, and  
CC sarcomas. The present sequence represents a human gene of the invention.  
XX  
SQ Sequence 96595 BP; 27524 A; 20559 C; 21158 G; 26915 T; 0 U; 439 Other;

Query Match 1.5%; Score 46; DB 10; Length 96595;  
Best Local Similarity 100.0%; Pred. No. 9.3e-11;  
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3071 CAAGATTGTGCCACTGCACTCCAGCTGGGCAACAGAGCAAGACTC 3116  
DB 57090 CAAGATTGTGCCACTGCACTCCAGCTGGGCAACAGAGCAAGACTC 57135

RESULT 103  
ADO56274/C  
ID ADO56274 standard; DNA; 99100 BP.  
XX  
AC ADO56274;  
XX  
DT 12-AUG-2004 (first entry)  
XX  
DE Human cyclin-dependent kinase 10, CDK10, genomic sequence.  
XX  
KW gene therapy; human; ds; gene; melanoma;  
KW melanoma associated polymorphic variation; SNP;  
KW single nucleotide polymorphism; cyclin-dependent kinase 10; CDK10.  
XX  
OS Homo sapiens.  
XX  
FH Key Location/Qualifiers  
FH 139  
FT variation  
FT /tag= a  
FT /note= "Single nucleotide polymorphism"  
FT 424

FT /tag= b  
FT /note= "Single nucleotide polymorphism"  
FT 2898 /tag= c  
FT /note= "Single nucleotide polymorphism"  
FT 3166 /tag= d  
FT /note= "Single nucleotide polymorphism"  
FT 3501 /tag= e  
FT /note= "Single nucleotide polymorphism"  
FT 3525 /tag= f  
FT /note= "Single nucleotide polymorphism"  
FT 4165 /tag= g  
FT /note= "Single nucleotide polymorphism"  
FT 4647 /tag= h  
FT /note= "Single nucleotide polymorphism"  
FT 7960 /tag= i  
FT /note= "Single nucleotide polymorphism"  
FT 8081 /tag= j  
FT /note= "Single nucleotide polymorphism"  
FT 8194 /tag= k  
FT /note= "Single nucleotide polymorphism"  
FT 9640 /tag= l  
FT /note= "Single nucleotide polymorphism"  
FT 13285 /tag= m  
FT /note= "Single nucleotide polymorphism"  
FT 14845 /tag= n  
FT /note= "Single nucleotide polymorphism"  
FT 14933 /tag= o  
FT /note= "Single nucleotide polymorphism"  
FT 16275 /tag= p  
FT /note= "Single nucleotide polymorphism"  
FT 16586 /tag= q  
FT /note= "Single nucleotide polymorphism"  
FT 16824 /tag= r  
FT /note= "Single nucleotide polymorphism"  
FT 17564 /tag= s  
FT /note= "Single nucleotide polymorphism"  
FT 18077 /tag= t  
FT /note= "Single nucleotide polymorphism"  
FT 18435 /tag= u  
FT /note= "Single nucleotide polymorphism"  
FT 19300 /tag= v  
FT /note= "Single nucleotide polymorphism"  
FT 19488 /tag= w  
FT /note= "Single nucleotide polymorphism"  
FT 20864 /tag= x  
FT /note= "Single nucleotide polymorphism"  
FT 21176 /tag= y  
FT /note= "Single nucleotide polymorphism"  
FT 21338 /tag= z

FT variation  
FT 21343 /tag= aa  
FT /note= "Single nucleotide polymorphism"  
FT 21599 /tag= ab  
FT /note= "Single nucleotide polymorphism"  
FT 22081 /tag= ac  
FT /note= "Single nucleotide polymorphism"  
FT 23427 /tag= ad  
FT /note= "Single nucleotide polymorphism"  
FT 27153 /tag= ae  
FT /note= "Single nucleotide polymorphism"  
FT 27535 /tag= af  
FT /note= "Single nucleotide polymorphism"  
FT 27859 /tag= ag  
FT /note= "Single nucleotide polymorphism"  
FT 33527 /tag= ah  
FT /note= "Single nucleotide polymorphism"  
FT 34152 /tag= ai  
FT /note= "Single nucleotide polymorphism"  
FT 39455 /tag= aj  
FT /note= "Single nucleotide polymorphism"  
FT 39762 /tag= ak  
FT /note= "Single nucleotide polymorphism"  
FT 40292 /tag= al  
FT /note= "Single nucleotide polymorphism"  
FT 40697 /tag= am  
FT /note= "Single nucleotide polymorphism"  
FT 40831 /tag= an  
FT /note= "Single nucleotide polymorphism"  
FT 41516 /tag= ao  
FT /note= "Single nucleotide polymorphism"  
FT 41955 /tag= ap  
FT /note= "Single nucleotide polymorphism"  
FT 42477 /tag= aq  
FT /note= "Single nucleotide polymorphism"  
FT 43164 /tag= ar  
FT /note= "Single nucleotide polymorphism"  
FT 43734 /tag= as  
FT /note= "Single nucleotide polymorphism"  
FT 44029 /tag= at  
FT /note= "Single nucleotide polymorphism"  
FT 44692 /tag= au  
FT /note= "Single nucleotide polymorphism"  
FT 44866 /tag= av  
FT /note= "Single nucleotide polymorphism"  
FT 46234 /tag= aw  
FT /note= "Single nucleotide polymorphism"  
FT 47754 /tag= ax  
FT /note= "Single nucleotide polymorphism"

```
FT variation 47914 /tag= ay
FT /note= "Single nucleotide polymorphism"
FT variation 49672 /tag= az
FT /note= "Single nucleotide polymorphism"
FT variation 50476 /tag= ba
FT /note= "Single nucleotide polymorphism"
FT variation 50525 /tag= bb
FT /note= "Single nucleotide polymorphism"
FT variation 50621 /tag= bc
FT /note= "Single nucleotide polymorphism"
FT variation 53410 /tag= bd
FT /note= "Single nucleotide polymorphism"
FT variation 53833 /tag= be
FT /note= "Single nucleotide polymorphism"
FT variation 59632 /tag= bf
FT /note= "Single nucleotide polymorphism"
FT variation 59646 /tag= bg
FT /note= "Single nucleotide polymorphism"
FT variation 59667 /tag= bh
FT /note= "Single nucleotide polymorphism"
FT variation 59676 /tag= bi
FT /note= "Single nucleotide polymorphism"
FT variation 59678 /tag= bj

Query Match 1.5%; Score 46; DB 12; Length 99100;
Best Local Similarity 100.0%; Pred. No. 9.3e-11;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 3071 CAAGATTGTGCCACTGCACCTCCAGCTGGGCAACAGAGCAAGATC 3116
Db 16521 CAAGATTGTGCCACTGCACCTCCAGCTGGGCAACAGAGCAAGATC 16476

RESULT 104
ADX80723/C
ID ADX80723 standard; DNA; 99250 BP.
XX
AC ADX80723;
XX
XX 05-MAY-2005 (first entry)
DE Human cyclin-dependent kinase 10 (CDK10) genomic DNA.
XX
XX melanoma; DNA polymorphism; SNP detection; cytostatic; gene therapy; SNP;
KM single nucleotide polymorphism; gene; ds; chromosome 16.
XX
OS Homo sapiens.
XX
XX Key location/Qualifiers
FH variation 234 /tag= a
FT /standard_name= "Single nucleotide polymorphism"
FT variation 519 /tag= b
FT /standard_name= "Single nucleotide polymorphism"
FT variation 2993 /tag= c
FT /standard_name= "Single nucleotide polymorphism"
FT variation 3261 /tag= d
FT /standard_name= "Single nucleotide polymorphism"
```

```
FT variation 3596 /tag= e
FT /standard_name= "Single nucleotide polymorphism"
FT variation 3620 /tag= f
FT /standard_name= "Single nucleotide polymorphism"
FT variation 4260 /tag= g
FT /standard_name= "Single nucleotide polymorphism"
FT variation 4742 /tag= h
FT /standard_name= "Single nucleotide polymorphism"
FT variation 8055 /tag= i
FT /standard_name= "Single nucleotide polymorphism"
FT variation 8176 /tag= j
FT /standard_name= "Single nucleotide polymorphism"
FT variation 8289 /tag= k
FT /standard_name= "Single nucleotide polymorphism"
FT variation 9735 /tag= l
FT /standard_name= "Single nucleotide polymorphism"
FT variation 13380 /tag= m
FT /standard_name= "Single nucleotide polymorphism"
FT variation 14940 /tag= n
FT /standard_name= "Single nucleotide polymorphism"
FT variation 15028 /tag= o
FT /standard_name= "Single nucleotide polymorphism"
FT variation 16370 /tag= p
FT /standard_name= "Single nucleotide polymorphism"
FT variation 16681 /tag= q
FT /standard_name= "Single nucleotide polymorphism"
FT variation 16919 /tag= r
FT /standard_name= "Single nucleotide polymorphism"
FT variation 17659 /tag= s
FT /standard_name= "Single nucleotide polymorphism"
FT variation 18172 /tag= t
FT /standard_name= "Single nucleotide polymorphism"
FT variation 18530 /tag= u
FT /standard_name= "Single nucleotide polymorphism"
FT variation 19395 /tag= v
FT /standard_name= "Single nucleotide polymorphism"
FT variation 19583 /tag= w
FT /standard_name= "Single nucleotide polymorphism"
FT variation 20959 /tag= x
FT /standard_name= "Single nucleotide polymorphism"
FT variation 21271 /tag= y
FT /standard_name= "Single nucleotide polymorphism"
FT variation 21433 /tag= z
FT /standard_name= "Single nucleotide polymorphism"
FT variation 21438 /tag= aa
FT /standard_name= "Single nucleotide polymorphism"
FT variation 21694 /tag= ab
FT /standard_name= "Single nucleotide polymorphism"
FT variation 22176 /tag= ac
FT /standard_name= "Single nucleotide polymorphism"
```

```
FT      /*tag= ac
FT      /standard_name= "Single nucleotide polymorphism"
FT      23522
FT      /*tag= ad
FT      /standard_name= "Single nucleotide polymorphism"
FT      27248
FT      /*tag= ae
FT      /standard_name= "Single nucleotide polymorphism"
FT      27630
FT      /*tag= af
FT      /standard_name= "Single nucleotide polymorphism"
FT      27954
FT      /*tag= ag
FT      /standard_name= "Single nucleotide polymorphism"
FT      33622
FT      /*tag= ah
FT      /standard_name= "Single nucleotide polymorphism"
FT      34247
FT      /*tag= ai
FT      /standard_name= "Single nucleotide polymorphism"
FT      36589
FT      /*tag= aj
FT      /standard_name= "Single nucleotide polymorphism"
FT      38672
FT      /*tag= ak
FT      /standard_name= "Single nucleotide polymorphism"
FT      39539
FT      /*tag= al
FT      /standard_name= "Single nucleotide polymorphism"
FT      39846
FT      /*tag= am
FT      /standard_name= "Single nucleotide polymorphism"
FT      40376
FT      /*tag= an
FT      /standard_name= "Single nucleotide polymorphism"
FT      40781
FT      /*tag= ao
FT      /standard_name= "Single nucleotide polymorphism"
FT      40915
FT      /*tag= ap
FT      /standard_name= "Single nucleotide polymorphism"
FT      41600
FT      /*tag= aq
FT      /standard_name= "Single nucleotide polymorphism"
FT      42039
FT      /*tag= ar
FT      /standard_name= "Single nucleotide polymorphism"
FT      42561
FT      /*tag= as
FT      /standard_name= "Single nucleotide polymorphism"
FT      43248
FT      /*tag= at
FT      /standard_name= "Single nucleotide polymorphism"
FT      43818
FT      /*tag= au
FT      /standard_name= "Single nucleotide polymorphism"
FT      44113
FT      /*tag= av
FT      /standard_name= "Single nucleotide polymorphism"
FT      44126
FT      /*tag= aw
FT      /standard_name= "Single nucleotide polymorphism"
FT      44544
FT      /*tag= ax
FT      /standard_name= "Single nucleotide polymorphism"
FT      44776
FT      /*tag= ay
FT      /standard_name= "Single nucleotide polymorphism"
FT      45070
FT      /*tag= az
FT      /standard_name= "Single nucleotide polymorphism"
FT      46318
FT      /*tag= ba
FT      variation
```

```
FT      /standard_name= "Single nucleotide polymorphism"
FT      47837
FT      /*tag= bb
FT      /standard_name= "Single nucleotide polymorphism"
FT      47997
FT      /*tag= bc
FT      /standard_name= "Single nucleotide polymorphism"
FT      48304
FT      /*tag= bd
FT      /standard_name= "Single nucleotide polymorphism"
FT      49755
FT      /*tag= be
FT      /standard_name= "Single nucleotide polymorphism"
FT      49992
FT      /*tag= bf
FT      /standard_name= "Single nucleotide polymorphism"
FT      50260
FT      /*tag= bg
FT      /standard_name= "Single nucleotide polymorphism"
FT      50559
FT      /*tag= bh
FT      /standard_name= "Single nucleotide polymorphism"
FT      50608
FT      /*tag= bi
FT      /standard_name= "Single nucleotide polymorphism"
FT      50704
FT      /*tag= bj
FT      /standard_name= "Single nucleotide polymorphism"
FT      variation
```

Query Match 1.5%; Score 46; DB 14; Length 99250;  
Best Local Similarity 100.0%; Pred. No. 9.3e-11;  
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3071 CAGATTGTGCGCACTGCACCTGGGCAAGCAAGACTC 3116  
Db 16616 CAGATTGTGCGCACTGCACCTGGGCAAGCAAGACTC 16571

```
RESULT 105
ADQ97818
ID ADQ97818 standard; DNA; 109661 BP.
XX
AC ADQ97818;
XX
XX 07-OCT-2004 (first entry)
XX
DE Human cancer associated sequence HD11-002, SEQ ID 795.
XX
XX Cytostatic; Gene Therapy; cancer; leukemia; lymphoma; Human; de.
XX
XX Homo sapiens.
XX
XX W02004060304-A2.
XX
XX 22-JUL-2004.
XX
XX 22-DEC-2003; 2003WC-US041389.
XX
XX 27-DEC-2002; 2002US-00330773.
XX
XX (SAGR-) SAGRES DISCOVERY INC.
XX
XX Morris DW, Malandro MS;
XX
XX WPI; 2004-543781/52.
XX
XX New isolated cancer associated nucleic acids comprising at least 10
XX contiguous nucleotides, useful for diagnosing, preventing and/or treating
XX cancers such as leukemia and lymphoma.
XX
XX Claim 1; SEQ ID NO 795; 1999P; English.
XX
XX The present invention relates to cancer associated sequences (ADQ97025-
```

CC ADG98004). The sequences are useful for the diagnosis, prevention and/or  
CC treatment of cancer, such as leukemia and lymphoma. Note: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format directly from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences.

XX Sequence 109661 BP; 30680 A; 19371 C; 19986 G; 35350 T; 0 U; 4274 Other;

Query Match 1.5%; Score 46; DB 12; Length 109661;  
Best Local Similarity 100.0%; Pred. No. 9.3e-11;  
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2895 GGTGATCATCTGAGCCAGAGTTTGAAGCCAGCTGGCCAAACAT 2940

Db 40304 GGTGATCATCTGAGCCAGAGTTTGAAGCCAGCTGGCCAAACAT 40349

RESULT 106

ADG70447.1/c  
Continuation (2 of 5) of ADG70447 from base 100001 (Human AMGB-CLND8-CLND7 hybrid gene.  
WP Sequence split into 5 fragments LOCUS ADG70447 Accession Adg70447

WP Fragment Name Begin End  
WP ADG70447\_0 1 110000  
WP ADG70447\_1 100001 210000  
WP ADG70447\_2 200001 310000  
WP ADG70447\_3 300001 410000  
WP ADG70447\_4 400001 410846

Query Match 1.5%; Score 46; DB 10; Length 110000;  
Best Local Similarity 100.0%; Pred. No. 9.3e-11;  
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3071 CAAGATTGTGCCACTGCACTCCAGCTGGGCAACAGAGCAACTC 3116

Db 97539 CAAGATTGTGCCACTGCACTCCAGCTGGGCAACAGAGCAACTC 97554

RESULT 107

ABZ79565.1/c  
Continuation (2 of 5) of ABZ79565 from base 100001 (CLND8 and NY-REN-34 encoding DNA.)  
WP Sequence split into 5 fragments LOCUS ABZ79565 Accession Abz79565

WP Fragment Name Begin End  
WP ABZ79565\_0 1 110000  
WP ABZ79565\_1 100001 210000  
WP ABZ79565\_2 200001 310000  
WP ABZ79565\_3 300001 410000  
WP ABZ79565\_4 400001 410846

Query Match 1.5%; Score 46; DB 10; Length 110000;  
Best Local Similarity 100.0%; Pred. No. 9.3e-11;  
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3071 CAAGATTGTGCCACTGCACTCCAGCTGGGCAACAGAGCAACTC 3116

Db 97539 CAAGATTGTGCCACTGCACTCCAGCTGGGCAACAGAGCAACTC 97554

RESULT 108

ADZ13631.0  
WP Sequence split into 5 fragments LOCUS ADZ13631 Accession Adz13631

WP Fragment Name Begin End  
WP ADZ13631\_0 1 110000  
WP ADZ13631\_1 100001 210000  
WP ADZ13631\_2 200001 310000  
WP ADZ13631\_3 300001 410000  
WP ADZ13631\_4 400001 420555

ID ADZ13631 Standard; DNA; 420555 BP.

XX ADZ13631;

AC ADZ13631;

DT 16-JUN-2005 (first entry)  
XX Human cancer-associated genomic DNA #99.

XX  
KW Diagnosis; DNA microarray; microarray; biochip; cancer; neoplasm;  
KW cytoskeletal; gene; de.

XX Homo sapiens.

XX WO2005031001-A2.

XX 07-APR-2005.

XX 23-SEP-2004; 2004WO-US031617.

XX 23-SEP-2003; 2003US-00669920.

XX (CHIR ) CHIRON CORP.

XX Morris DW, Malandro MS;

XX WPI; 2005-273395/28.

XX Nucleic acid array useful for detecting cancer associated nucleic acid,  
XX comprises two or more nucleic acid probes.

XX Disclosure; SEQ ID NO 1151; 198bp; English.

XX The invention relates to a nucleic acid array for detecting a cancer  
XX associated (CA) nucleic acid, comprising two or more nucleic acid probes.  
XX The invention also relates to a peptide array comprising two or more  
XX isolated polypeptides encoded by a CA nucleic acid sequence, a compound  
XX that binds to a polypeptide, an isolated antibody or its fragment which  
XX binds to a polypeptide, which is prepared by immunizing a host animal  
XX with a composition comprising the polypeptide or its antigen binding  
XX fragment and collecting cells from the host expressing antibodies against  
XX the antigen or its antigen binding fragment, a composition comprising the  
XX antibody and a carrier, a method of screening for anticancer activity, a  
XX method of detecting a CA nucleic acid, a method of diagnosing cancer, a  
XX method of treating cancer and a method of inhibiting expression of a CA  
XX nucleic acid in a cell. The CA nucleic acids are useful for detecting CA  
XX nucleic acids. The antibody is useful for detecting the presence or  
XX absence of cancer cells in an individual which involves contacting cells  
XX from the individual with the antibody and detecting a complex of a CA  
XX protein from the cancer cells and the antibody, where the detection of  
XX the complex correlates with the presence of cancer cells in the  
XX individual. The composition is useful for inhibiting growth of cancer  
XX cells in an individual or for delivering a therapeutic agent to cancer  
XX cells in an individual. The invention is also useful for diagnosing  
XX cancer, for treating cancer and for inhibiting expression of a CA gene in  
XX a cell. This sequence represents human cancer-associated genomic DNA of  
XX the invention.

XX Sequence 420555 BP; 131028A; 77271C; 78657G; 131031T; 0U; 25680Other;

Query Match 1.5%; Score 46; DB 14; Length 110000;  
Best Local Similarity 100.0%; Pred. No. 9.3e-11;  
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3077 TGTGCCACTGCACTCCAGCTGGGCAACAGAGCAAGACTCTGTCTC 3122

Db 50592 TGTGCCACTGCACTCCAGCTGGGCAACAGAGCAAGACTCTGTCTC 50637

RESULT 109

ADZ13620.0  
WP Sequence split into 5 fragments LOCUS ADZ13620 Accession Adz13620

WP Fragment Name Begin End  
WP ADZ13620\_0 1 110000  
WP ADZ13620\_1 100001 210000  
WP ADZ13620\_2 200001 310000  
WP ADZ13620\_3 300001 410000  
WP ADZ13620\_4 400001 420555

ID ADZ13620 Standard; DNA; 420555 BP.

XX ADZ13620;

XX 16-JUN-2005 (first entry)  
DT  
XX Human cancer-associated genomic DNA #98.  
DE  
XX Diagnosis: DNA microarray; microarray; biochip; cancer; neoplasm;  
KM cytosolic; gene; ds.  
XX Homo sapiens.  
OS  
XX MO2005031001-A2.  
PN  
XX 07-APR-2005.  
PD  
XX 23-SEP-2004; 2004WO-US031617.  
PF  
XX 23-SEP-2003; 2003US-00669920.  
PR  
XX (CHIR ) CHIRON CORP.  
PA  
XX Morris DW, Malandro MS;  
PI  
XX WPI; 2005-273395/28.  
DR  
XX Nucleic acid array useful for detecting cancer associated nucleic acid,  
PT comprises two or more nucleic acid probes.  
XX  
XX Disclosure; SEQ ID NO 1140; 198pp; English.  
PS  
XX The invention relates to a nucleic acid array for detecting a cancer  
CC associated (CA) nucleic acid, comprising two or more nucleic acid probes.  
CC The invention also relates to a peptide array comprising two or more  
CC isolated polypeptides encoded by a CA nucleic acid sequence, a compound  
CC that binds to a polypeptide, an isolated antibody or its fragment which  
CC binds to a polypeptide, which is prepared by immunizing a host animal  
CC with a composition comprising the polypeptide or its antigen binding  
CC fragment and collecting cells from the host expressing antibodies against  
CC the antigen or its antigen binding fragment, a composition comprising the  
CC antibody and a carrier, a method of screening for anticancer activity, a  
CC method of detecting a CA nucleic acid, a method of diagnosing cancer, a  
CC method of treating cancer and a method of inhibiting expression of a CA  
CC nucleic acid in a cell. The CA nucleic acids are useful for detecting CA  
CC nucleic acids. The antibody is useful for detecting the presence or  
CC absence of cancer cells in an individual which involves contacting cells  
CC from the individual with the antibody and detecting a complex of a CA  
CC protein from the cancer cells and the antibody, where the detection of  
CC the complex correlates with the presence of cancer cells in the  
CC individual. The composition is useful for inhibiting growth of cancer  
CC cells in an individual or for delivering a therapeutic agent to cancer  
CC cells in an individual. The invention is also useful for diagnosing  
CC cancer, for treating cancer and for inhibiting expression of a CA gene in  
CC a cell. This sequence represents human cancer-associated genomic DNA of  
CC the invention.  
XX  
XX  
SQ Sequence 420555 BP; 131028A; 77271C; 78657G; 131031T; 0U; 25680Other;  
XX  
XX Query Match 1.5%; Score 46; DB 14; Length 110000;  
XX Best Local Similarity 100.0%; Pred. No. 9.3e-11;  
XX Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 3077 TGTGCACTGCACTCCAGCCTGGGCAACAGCAAGACTCTGTCTC 3122  
Db 50592 TGTGCACTGCACTCCAGCCTGGGCAACAGCAAGACTCTGTCTC 50637

RESULT 110  
AD213747\_2/c  
Continuation (3 of 4) of AD213747 from base 200001 (Human cancer-associated genomic DNA  
WP Sequence split into 4 fragments LOCUS AD213747 Accession Ad213747  
WP Fragment Name Begin End  
WP AD213747\_0 1 110000  
WP AD213747\_1 100001 210000  
WP AD213747\_2 200001 310000

WP AD213747\_3 300001 365720  
Query Match 1.5%; Score 46; DB 14; Length 110000;  
Best Local Similarity 100.0%; Pred. No. 9.3e-11;  
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 3071 CAAGATTGTGCCACTGCACTCCAGCCTGGGCAACAGCAAGACTC 3116  
Db 73741 CAAGATTGTGCCACTGCACTCCAGCCTGGGCAACAGCAAGACTC 73696

RESULT 111  
AAD54480  
ID AAD54480 standard; DNA; 117962 BP.  
XX  
XX AAD54480;  
AC  
XX 26-JUN-2003 (first entry)  
DT  
XX Human CIP DNA #1.  
DE  
XX  
XX Human, p53 pathway; chloride cotransporter interactor protein; CIP;  
KM angiogenic disorder; cell proliferation disorder; apoptotic disorder;  
KM breast cancer; gene therapy; ds.  
XX  
XX Homo sapiens.  
OS  
XX MO2002099055-A2.  
PN  
XX 12-DEC-2002.  
PD  
XX 03-JUN-2002; 2002WO-US017473.  
PF  
XX 05-JUN-2001; 2001US-0296076P.  
PR 10-OCT-2001; 2001US-0328605P.  
PR 15-FEB-2002; 2002US-0357253P.  
XX  
XX (EXEL-) EXELIXIS INC.  
PA  
PI Friedman L, Plozman GD, Belvin M, Francis-Liang H, Li D, Funke RP;  
XX WPI; 2003-175140/17.  
DR  
XX Identifying p53 pathway modulators for treating or diagnosing disorders  
PT with defective p53 function e.g. breast cancer, by providing an assay  
PT system having a purified cotransporter interactor protein (CIP)  
PT polypeptide or nucleic acid.  
XX  
XX Disclosure; Page 38-101; 123pp; English.  
PS  
XX The invention relates to a method of identifying p53 pathway modulating  
CC agent. The method involves contacting a test agent with an assay system  
CC comprising a purified cation Cl- cotransporter interactor protein (CIP)  
CC polypeptide or polynucleotide, or their functionally active fragment or  
CC derivative. The method is useful for identifying modulators of the p53  
CC pathway particularly for identifying agents for treating disorders (e.g.  
CC breast cancer) associated with defective p53 function. Modulators of the  
CC invention are useful as targets for novel therapeutics. CIP sequences are  
CC useful as modifiers of the p53 pathway, and as therapeutic targets for  
CC disorders associated with defective p53 function e.g. angiogenic,  
CC apoptotic or cell proliferation disorders. The invention is useful in  
CC gene therapy. The present sequence is human CIP DNA  
XX  
XX  
SQ Sequence 117962 BP; 27840 A; 32096 C; 30624 G; 27402 T; 0 U; 0 Other;  
XX  
XX Query Match 1.5%; Score 46; DB 8; Length 117962;  
XX Best Local Similarity 100.0%; Pred. No. 9.3e-11;  
XX Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 3071 CAAGATTGTGCCACTGCACTCCAGCCTGGGCAACAGCAAGACTC 3116  
Db 18398 CAAGATTGTGCCACTGCACTCCAGCCTGGGCAACAGCAAGACTC 18443

RESULT 112  
ACN43862  
ID ACN43862 standard; DNA; 141463 BP.  
XX  
XX  
AC ACN43862;  
XX  
XX  
DT 18-NOV-2004 (first entry)  
XX  
XX  
DE Human genomic sequence hCG21073.  
XX  
XX  
KW Cytostatic; carcinoma; lymphoma; cancer; human; gene; ss.  
XX  
XX  
OS Homo sapiens.  
XX  
XX  
PN WO2003073826-A2.  
XX  
XX  
PD 12-SEP-2003.  
XX  
XX  
PF 28-FEB-2003; 2003WO-US006235.  
XX  
XX  
PR 01-MAR-2002; 2002US-00087192.  
XX  
XX  
PA (SAGR-) SAGRES DISCOVERY.  
XX  
XX  
PI Morris DW;  
XX  
XX  
DR WPI; 2003-328604/31.  
XX  
XX  
PT Recombinant nucleic acid useful for diagnosis and treatment of carcinoma  
XX  
XX  
PT comprises a nucleotide sequence.  
XX  
XX  
PS Claim 1; SEQ ID NO 22; Opp; English.  
XX  
XX  
CC The present invention relates to novel DNA and protein sequences which  
XX  
XX  
CC are associated with carcinomas. The sequences are useful for: (i) for  
XX  
XX  
CC screening drug candidates; (ii) for screening of bioactive agent capable  
XX  
XX  
CC of binding to Carcinoma Associated Protein (CAP); (iii) for screening of  
XX  
XX  
CC a bioactive agent capable of modulating the activity of CAP; (iv) for  
XX  
XX  
CC evaluating the effect of a candidate carcinoma drug; (v) for diagnosing  
XX  
XX  
CC carcinoma; (vi) for inhibiting the activity of CAP; (vii) for treating  
XX  
XX  
CC carcinoma; (viii) for neutralizing the effect of CAP; (ix) as a biochip;  
XX  
XX  
CC (x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for  
XX  
XX  
CC determining Carcinoma Associated (CA) gene copy number. In addition, the  
XX  
XX  
CC CA genes are useful as DNA vaccines and the CAP are useful as markers of  
XX  
XX  
CC carcinoma including lymphoma. The present sequence is one such CA coding  
XX  
XX  
CC sequence. Note: This patent is an equivalent to basic patent  
XX  
XX  
CC US2002182586A1, for which no sequence data was published  
XX  
XX  
SQ Sequence 141463 BP; 40336 A; 28306 C; 29237 G; 43584 T; 0 U; 0 Other;  
XX  
XX  
Query Match 1.5%; Score 46; DB 11; Length 141463;  
XX  
XX  
Best Local Similarity 100.0%; Pred. No. 9.2e-11;  
XX  
XX  
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
XX  
XX  
QY 3071 CAAGTTGTGCGCACTGCACTCCAGCTTGGGCAACAGAGCAAGACTC 3116  
XX  
XX  
DB 73703 CAAGATTGTGCGCACTGCACTCCAGCTTGGGCAACAGAGCAAGACTC 73748  
XX  
XX  
RESULT 113  
ADC87620/C  
ID ADC87620 standard; DNA; 144792 BP.  
XX  
XX  
AC ADC87620;  
XX  
XX  
DT 01-JAN-2004 (first entry)  
XX  
XX  
DE Human GPCR related polynucleotide SEQ ID NO:2073.  
XX  
XX  
KW ds; human; GPCR; guanosine triphosphate-binding protein coupled receptor;  
XX  
XX  
KW gene therapy.  
XX  
XX

OS Homo sapiens.  
XX  
XX  
PN EPI270724-A2.  
XX  
XX  
PD 02-JAN-2003.  
XX  
XX  
PF 18-JUN-2002; 2002EP-00013517.  
XX  
XX  
PR 18-JUN-2001; 2001JP-00246789.  
XX  
XX  
PA (NAD-) NAT INST ADVANCED IND SCI & TECHNOLOGY.  
XX  
XX  
PA (ADSC-) CENT ADVANCED SCI & TECHNOLOGY INCUBATIO.  
XX  
XX  
PI Suwa M, Asei K, Akiyama Y, Aburatani H;  
XX  
XX  
DR WPI; 2003-315783/31.  
XX  
XX  
PT New polynucleotide, useful for preparing a composition for treating a  
XX  
XX  
PT patient in need of increased or suppressed activity or expression of the  
XX  
XX  
PT guanosine triphosphate-binding protein coupled receptor.  
XX  
XX  
PS Disclosure; SEQ ID NO 2073; 28pp; English.  
XX  
XX  
CC The invention relates to a novel polynucleotide encoding a guanosine  
XX  
XX  
CC triphosphate-binding protein coupled receptor (GPCR). A polynucleotide of  
XX  
XX  
CC the invention may have a use in gene therapy. The polynucleotide and  
XX  
XX  
CC polypeptide are useful for preparing a composition for treating a patient  
XX  
XX  
CC in need of increased or suppressed activity or expression of the  
XX  
XX  
CC guanosine triphosphate-binding protein coupled receptor. The protein  
XX  
XX  
CC sequences shown in ADC87618-ADC87623 represent polynucleotide sequences  
XX  
XX  
CC related to the invention.  
XX  
XX  
SQ Sequence 144792 BP; 39827 A; 32142 C; 33413 G; 39310 T; 0 U; 100 Other;  
XX  
XX  
Query Match 1.5%; Score 46; DB 10; Length 144792;  
XX  
XX  
Best Local Similarity 100.0%; Pred. No. 9.2e-11;  
XX  
XX  
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
XX  
XX  
QY 3071 CAAGTTGTGCGCACTGCACTCCAGCTTGGGCAACAGAGCAAGACTC 3116  
XX  
XX  
DB 60793 CAAGATTGTGCGCACTGCACTCCAGCTTGGGCAACAGAGCAAGACTC 60748  
XX  
XX  
RESULT 114  
ADL13904/C  
ID ADL13904 standard; DNA; 164772 BP.  
XX  
XX  
AC ADL13904;  
XX  
XX  
DT 06-MAY-2004 (first entry)  
XX  
XX  
DE Osteoarthritis-associated polymorphic nucleotide #436.  
XX  
XX  
KW ds; gene; osteopathic; antiinflammatory; antiarthritic; gene therapy;  
XX  
XX  
KW joint space narrowing; osteophyte development; joint pain;  
XX  
XX  
KW osteoarthritis; SNP; single nucleotide polymorphism.  
XX  
XX  
OS Homo sapiens.  
XX  
XX  
PN WO2003054166-A2.  
XX  
XX  
PD 03-JUL-2003.  
XX  
XX  
PF 19-DEC-2002; 2002WO-US041225.  
XX  
XX  
PR 20-DEC-2001; 2001US-0342603P.  
XX  
XX  
PA (INCY-) INCYTE GENOMICS INC.  
XX  
XX  
PI Jones KA, Schaefer A;  
XX  
XX  
DR WPI; 2003-559141/52.  
XX  
XX

PT Determining susceptibility of an individual to joint space narrowing,  
PT osteophyte development and/or joint pain comprises identifying whether  
PT the individual has at least one polymorphism in a polynucleotide encoding  
PT a protein.  
XX  
PS Disclosure; SEQ ID NO 436; 297bp; English.  
XX  
CC The invention relates to a method of determining susceptibility of an  
CC individual to joint space narrowing and/or osteophyte development and/or  
CC joint pain comprising identifying whether the individual has at least one  
CC polymorphism in a polynucleotide encoding at least one of the protein  
CC listed in the specification. The methods, composition and agent are  
CC useful for modulating the susceptibility of an individual to joint space  
CC narrowing and/or osteophyte development and/or joint pain that is  
CC associated with a disease, preferably osteoarthritis. The cell line and  
CC the non-human animal are useful for screening for an agent for diagnosing  
CC an individual having susceptibility to joint space narrowing and/or  
CC osteophyte development and/or joint pain. This sequence corresponds to  
CC the polynucleotide encoding a protein listed in the specification. (Note:  
CC The sequence data for this patent did not form part of the printed  
CC specification but was obtained in electronic format directly from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences).  
XX  
SQ Sequence 164772 BP; 50645 A; 32137 C; 31960 G; 50022 T; 0 U; 8 Other;  
XX  
Query Match 1.5%; Score 46; DB 10; Length 164772;  
Best Local Similarity 100.0%; Pred. No. 9.2e-11;  
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
XX  
QY 2895 GGTGGATCCTGAGGCCAGAGTTCCGAGACCAGCTGGCCCAACAT 2940  
Db 111876 GGTGGATCCTGAGGCCAGAGTTCCGAGACCAGCTGGCCCAACAT 111831  
XX  
RESULT 115  
ACN44262  
ID ACN44262 standard; DNA; 168821 BP.  
XX  
AC ACN44262;  
XX  
XX 18-NOV-2004 (first entry)  
XX  
DE Human genomic sequence hCG18035.  
XX  
KM Cystostatic; carcinoma; lymphoma; cancer; human; gene; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO2003073826-A2.  
XX  
PD 12-SEP-2003.  
XX  
PF 28-FEB-2003; 2003WO-US0006235.  
XX  
PR 01-MAR-2002; 2002US-00087192.  
XX  
PA (SAGR-) SAGRES DISCOVERY.  
XX  
PI Morris DW;  
XX  
DR WPI; 2003-328604/31.  
XX  
PT Recombinant nucleic acid useful for diagnosis and treatment of carcinoma  
PT comprises a nucleotide sequence.  
XX  
XX Claim 1; SEQ ID NO 622; 0pp; English.  
XX  
CC The present invention relates to novel DNA and protein sequences which  
CC are associated with carcinomas. The sequences are useful for: (i) for  
CC screening drug candidates; (ii) for screening of bioactive agent capable  
CC of binding to Carcinoma Associated Protein (CAP); (iii) for screening of  
CC a bioactive agent capable of modulating the activity of CAP; (iv) for  
CC evaluating the effect of a candidate carcinoma drug; (v) for diagnosing

CC carcinoma; (vi) for inhibiting the activity of CAP; (vii) for treating  
CC carcinoma; (viii) for neutralizing the effect of CAP; (ix) as a biochip;  
CC (x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for  
CC determining Carcinoma Associated (CA) gene copy number. In addition, the  
CC CA genes are useful as DNA vaccines and the CAP are useful as markers of  
CC carcinoma including lymphoma. The present sequence is one such CA coding  
CC sequence. Note: This patent is an equivalent to basic patent  
CC US2002182586A1, for which no sequence data was published  
XX  
SQ Sequence 168821 BP; 39588 A; 43389 C; 45655 G; 40189 T; 0 U; 0 Other;  
XX  
Query Match 1.5%; Score 46; DB 11; Length 168821;  
Best Local Similarity 100.0%; Pred. No. 9.1e-11;  
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
XX  
QY 2895 GGTGGATCCTGAGGCCAGAGTTCCGAGACCAGCTGGCCCAACAT 2940  
Db 161763 GGTGGATCCTGAGGCCAGAGTTCCGAGACCAGCTGGCCCAACAT 161808  
XX  
RESULT 116  
ADL13935  
ID ADL13935 standard; DNA; 177866 BP.  
XX  
AC ADL13935;  
XX  
XX 06-MAY-2004 (first entry)  
XX  
DE Osteoarthritis-associated polymorphic nucleotide #467.  
XX  
KM ds; gene; osteopathic; antiinflammatory; antiarthritic; gene therapy;  
KM joint space narrowing; osteophyte development; joint pain;  
KM osteoarthritis; SNP; single nucleotide polymorphism.  
XX  
OS Homo sapiens.  
XX  
PN WO2003054166-A2.  
XX  
PD 03-JUL-2003.  
XX  
PF 19-DEC-2002; 2002WO-US041225.  
XX  
PR 20-DEC-2001; 2001US-0342603P.  
XX  
PA (INCY-) INCYTE GENOMICS INC.  
XX  
PI Jones KA, Schafer A;  
XX  
DR WPI; 2003-559141/52.  
XX  
PT Determining susceptibility of an individual to joint space narrowing,  
PT osteophyte development and/or joint pain comprises identifying whether  
PT the individual has at least one polymorphism in a polynucleotide encoding  
PT a protein.  
XX  
PS Disclosure; SEQ ID NO 467; 297bp; English.  
XX  
XX The invention relates to a method of determining susceptibility of an  
XX individual to joint space narrowing and/or osteophyte development and/or  
XX joint pain comprising identifying whether the individual has at least one  
XX polymorphism in a polynucleotide encoding at least one of the protein  
XX listed in the specification. The methods, composition and agent are  
XX useful for modulating the susceptibility of an individual to joint space  
XX narrowing and/or osteophyte development and/or joint pain that is  
XX associated with a disease, preferably osteoarthritis. The cell line and  
XX the non-human animal are useful for screening for an agent for diagnosing  
XX an individual having susceptibility to joint space narrowing and/or  
XX osteophyte development and/or joint pain. This sequence corresponds to  
XX the polynucleotide encoding a protein listed in the specification. (Note:  
XX The sequence data for this patent did not form part of the printed  
XX specification but was obtained in electronic format directly from WIPO at  
XX ftp.wipo.int/pub/published\_pct\_sequences).



SEQ Sequence 177866 BP; 53227 A; 36632 C; 36825 G; 51154 T; 0 U; 28 Other;

Query Match 1.5%; Score 46; DB 10; Length 177866;

Best Local Similarity 100.0%; Pred. No. 9.1e-11;

Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3071 CAAGATTGTCACCTGCACTCCAGCTGGGCAACAGAGAACTC 3116

DB 166193 CAAGATTGTCACCTGCACTCCAGCTGGGCAACAGAACTC 166238

RESULT 117

ADFe69677

ID ADFe69677 strand; DNA; 181257 BP.

AC ADFe69677;

DT 11-MAR-2004 (first entry)

DE Human SLC5A8 gene SEQ ID NO:2.

XX human; SLC5A8; cell surface protein; cytostatic; gene therapy;

XX SLC5A8-associated cancer; colon cancer; breast cancer; thyroid cancer;

XX stomach cancer; cancer; chromosome 12; gene; ds.

OS Homo sapiens.

XX WO2003104427-A2.

XX 18-DEC-2003.

XX 05-JUN-2003; 2003WO-US018239.

XX 05-JUN-2002; 2002US-0386653P.

XX (UYCA-) UNIV CASE WESTERN RESERVE.

XX Markowitz SD;

XX WPI; 2004-062348/06.

XX New SLC5A8 polypeptide, useful for detecting and treating SLC5A8-

XX associated cancer, e.g. colon, breast, thyroid or stomach cancer.

XX Claim 6; SEQ ID NO 2; 207pp; English.

XX The present invention describes the human SLC5A8 protein (I), which is a

XX cell surface protein. (I) has cytostatic activity, and can be used in

XX gene therapy. (I) can be used in detecting and treating SLC5A8-associated

XX cancer, e.g. colon cancer, breast cancer, thyroid cancer or stomach

XX cancer. (I) is also useful in screening assays, predictive medicine and

XX in diagnostic and prognostic assays. The human SLC5A8 gene is located on

XX chromosome 12. The present sequence is used in the exemplification of the

XX present invention.

XX Sequence 181257 BP; 53237 A; 35656 C; 35971 G; 56393 T; 0 U; 0 Other;

Query Match 1.5%; Score 46; DB 12; Length 181257;

Best Local Similarity 100.0%; Pred. No. 9.1e-11;

Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2895 GGTGATCACCCTGAGGCCAGAGTTCCAGACCAAGCTGGCCAACT 2940

DB 99600 GGTGATCACCCTGAGGCCAGAGTTCCAGACCAAGCTGGCCAACT 99645

RESULT 118

ABQ75562

ID ABQ75562 strand; DNA; 188888 BP.

AC ABQ75562;

DT 11-NOV-2002 (first entry)

XX Human related CYP 27C1 clone RP11-30P3 SEQ ID NO:21.

XX Cloning; characterization; human; cytochrome P450; CYP 27C1; cytosolic;

XX thymomimetic; antidiabetic; antiparathyroid; osteoporosis; osteoporosis;

XX dermatological; antiparathyroid; gene therapy; vaccine; Vitamin D; diabetes;

XX vitamin D metabolite deficiency; hyperparathyroidism; hypoparathyroidism;

XX medullary carcinoma; parathyroid; sarcoidosis; tuberculosis; osteomalacia;

XX chronic renal disease; vitamin D dependent rickets; anticonvulsant;

XX fibrogenesis imperfecta ossium; osteitis fibrosa cystica; osteoporosis;

XX osteopenia; osteosclerosis; renal osteodystrophy; rickets; steatorrhea;

XX glucocorticoid antagonism; idiopathic hypercalcaemia; tropical sprue;

XX malabsorption syndrome; cholesterol steroid; lipid metabolic disorder;

XX gene; ds.

XX Homo sapiens.

XX WO200264765-A2.

XX 22-AUG-2002.

XX 11-FEB-2002; 2002WO-CA000163.

XX 09-FEB-2001; 2001US-0267410P.

XX (CYTO-) CYTOCHROME INC.

XX Winiowski J;

XX WPI; 2002-657595/70.

XX New nucleic acid molecules encoding cytochrome P450 proteins, human CYP

XX 27C1 and a hybrid homologs from Xenopus laevis, useful for treating

XX diseases related to vitamin D or vitamin D metabolite deficiency, e.g.

XX parathyroidism and diabetes.

XX Example 1; Fig 1A; 209pp; English.

XX The present invention describes an isolated nucleic acid molecule (I)

XX encoding human cytochrome P450, CYP 27C1, and a hybrid homologue from

XX Xenopus laevis. (I) has thymomimetic, antidiabetic, cytostatic,

XX antiparathyroid, osteoporosis, osteoporosis, dermatological and

XX antiparathyroid activities, and can be used in gene therapy and in vaccines.

XX The nucleic acid molecules, proteins and methods from the present

XX invention are useful for treating diseases related to vitamin D or

XX vitamin D metabolite deficiency, e.g. hyper- and hypo-parathyroidism,

XX pseudohypo-parathyroidism, secondary hyperparathyroidism, diabetes,

XX medullary carcinoma, psoriasis, sarcoidosis, tuberculosis, chronic renal

XX disease, hypophosphatemic VDR, vitamin D dependent rickets,

XX anticonvulsant treatment, fibrogenesis imperfecta ossium, osteitis

XX fibrosa cystica, osteomalacia, osteoporosis, osteopenia, osteosclerosis,

XX renal osteodystrophy, rickets, glucocorticoid antagonism, idiopathic

XX hypercalcaemia, malabsorption syndrome, steatorrhea, and tropical sprue,

XX or cholesterol, steroid and other lipid metabolic disorders. The present

XX sequence represents a human related CYP 27C1 clone designated RP11-30P3,

XX which is given in an example from the present invention

XX Sequence 188888 BP; 51055 A; 42661 C; 43560 G; 47708 T; 0 U; 3904 Other;

Query Match 1.5%; Score 46; DB 6; Length 188888;

Best Local Similarity 100.0%; Pred. No. 9.1e-11;

Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2895 GGTGATCACCCTGAGGCCAGAGTTCCAGACCAAGCTGGCCAACT 2940

DB 142425 GGTGATCACCCTGAGGCCAGAGTTCCAGACCAAGCTGGCCAACT 142470

RESULT 119

ADL13570/G

ID ADL13570 standard; DNA; 193672 BP.

AC ADL13570;

XX 06-MAY-2004 (first entry)  
XX Osteoarthritis-associated polymorphic nucleotide #102.  
DE  
XX  
XX de; gene; osteopathic; antiinflammatory; antiarthritic; gene therapy;  
XX joint space narrowing; osteophyte development; joint pain;  
XX osteoarthritis; SNP; single nucleotide polymorphism.  
OS  
XX Homo sapiens.  
XX WO2003054166-A2.  
XX  
XX 03-JUL-2003.  
XX  
XX 19-DEC-2002; 2002WO-US041225.  
XX  
XX 20-DEC-2001; 2001US-0342603P.  
XX  
XX (INCY-) INCYTE GENOMICS INC.  
XX  
XX Jones KA, Schafer A;  
XX  
XX WPI; 2003-559141/52.  
XX  
XX Determining susceptibility of an individual to joint space narrowing,  
XX osteophyte development and/or joint pain comprises identifying whether  
XX the individual has at least one polymorphism in a polynucleotide encoding  
XX a protein.  
XX  
XX Disclosure; SEQ ID NO 102; 297bp; English.  
XX  
XX The invention relates to a method of determining susceptibility of an  
XX individual to joint space narrowing and/or osteophyte development and/or  
XX joint pain comprising identifying whether the individual has at least one  
XX polymorphism in a polynucleotide encoding at least one of the protein  
XX listed in the specification. The methods, composition and agent are  
XX useful for modulating the susceptibility of an individual to joint space  
XX narrowing and/or osteophyte development and/or joint pain that is  
XX associated with a disease, preferably osteoarthritis. The cell line and  
XX the non-human animal are useful for screening for an agent for diagnosing  
XX an individual having susceptibility to joint space narrowing and/or  
XX osteophyte development and/or joint pain. This sequence corresponds to  
XX the polynucleotide encoding a protein listed in the specification. (Note:  
XX The sequence data for this patent did not form part of the printed  
XX specification but was obtained in electronic format directly from WIPO at  
XX ftp.wipo.int/pub/published\_pct\_sequences).  
XX  
XX Sequence 193672 BP; 43026 A; 54282 C; 51944 G; 43718 T; 0 U; 702 Other;  
XX  
XX  
XX Query Match 1.5%; Score 46; DB 10; Length 193672;  
XX Best Local Similarity 100.0%; Pred. No. 9.1e-11;  
XX Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
XX  
XX 3071 CAAGATTGTGCGCACTGCACCTCGGCAACAGCAAGCAACTC 3116  
XX |||||||  
XX Db 3015 CAAGATTGTGCGCACTGCACCTCGGCAACAGCAAGCAACTC 2970  
XX  
XX  
XX RESULT 120  
XX ACN44650  
XX ID ACN44650 standard; DNA; 256157 BP.  
XX  
XX ACN44650;  
XX  
XX 18-NOV-2004 (first entry)  
XX  
XX Human genomic sequence hCG38672.  
XX  
XX Cytostatic; carcinoma; lymphoma; cancer; human; gene; ss.  
XX  
XX Homo sapiens.  
XX

PN WO2003073826-A2.  
XX  
XX 12-SEP-2003.  
PD  
XX  
XX 28-FEB-2003; 2003WO-US006235.  
PF  
XX  
XX 01-MAR-2002; 2002US-00087192.  
XX  
XX (SAGR-) SAGRES DISCOVERY.  
XX  
XX Morris DW;  
XX  
XX WPI; 2003-328604/31.  
XX  
XX Recombinant nucleic acid useful for diagnosis and treatment of carcinoma  
XX comprises a nucleotide sequence.  
XX  
XX Claim 1; SEQ ID NO 1204; 0bp; English.  
XX  
XX The present invention relates to novel DNA and protein sequences which  
XX are associated with carcinomas. The sequences are useful for: (i) for  
XX screening drug candidates; (ii) for screening of bioactive agent capable  
XX of binding to Carcinoma Associated Protein (CAP); (iii) for screening of  
XX a bioactive agent capable of modulating the activity of CAP; (iv) for  
XX evaluating the effect of a candidate carcinoma drug; (v) for diagnosing  
XX carcinoma; (vi) for inhibiting the activity of CAP; (vii) as a biochip;  
XX (x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for  
XX determining Carcinoma Associated (CA) gene copy number. In addition, the  
XX CA genes are useful as DNA vaccines and the CAP are useful as markers of  
XX carcinoma including lymphoma. The present sequence is one such CA coding  
XX sequence. Note: This patent is an equivalent to basic patent  
XX US2002182586A1, for which no sequence data was published  
XX  
XX Sequence 256157 BP; 70370 A; 54568 C; 55511 G; 73304 T; 0 U; 2404 Other;  
XX  
XX  
XX Query Match 1.5%; Score 46; DB 11; Length 256157;  
XX Best Local Similarity 100.0%; Pred. No. 9e-11;  
XX Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
XX  
XX 2895 GTGCGATCACCCTGAGCGCAGAGTTGAGACCAAGCTGGCAACAT 2940  
XX |||||||  
XX Db 192749 GTGCGATCACCCTGAGCGCAGAGTTGAGACCAAGCTGGCAACAT 192794  
XX  
XX  
XX RESULT 121  
XX ABD33570  
XX ID ABD33570 standard; DNA; 256157 BP.  
XX  
XX ABD33570;  
XX  
XX 18-NOV-2004 (first entry)  
XX  
XX Human cancer-associated (CA) gene HD07-114.  
XX  
XX Human; cancer-associated protein; CAP; cancer-associated gene; CA; gene;  
XX de; cancer; cytostatic.  
XX  
XX Homo sapiens.  
XX  
XX WO2004058146-A2.  
XX  
XX 15-JUL-2004.  
XX  
XX 15-DEC-2003; 2003WO-US040081.  
XX  
XX 17-DEC-2002; 2002US-00322281.  
XX  
XX (SAGR-) SAGRES DISCOVERY INC.  
XX  
XX Morris DW, Malandro MS;  
XX  
XX WPI; 2004-499109/47.  
XX

XX Novel human cancer associated protein encoded within open reading frame  
PT of cancer associated gene, useful as targets for diagnosing cancer.  
XX  
XX Claim 16; SEQ ID NO 776; 182pp; English.  
XX  
CC The invention relates to cancer-associated proteins (CAP) and the cancer-  
CC associated (CA) nucleic acids encoding them. The invention also relates  
CC to a method for treating cancers involving administering to a patient an  
CC inhibitor of CAP, and a method of screening for anticancer activity in a  
CC potential drug involving providing a cell that expresses a CA gene,  
CC contacting a tissue sample derived from a cancer cell with an anticancer  
CC drug candidate and monitoring the effect of the anticancer drug candidate  
CC on expression of the CA gene. The CAP proteins are useful for detecting  
CC cancer associated with expression of a CAP protein in a test cell sample  
CC and for screening for a bioactive agent capable of modulating the  
CC activity of a CAP protein. The CA nucleic acids are useful for diagnosing  
CC cancer, involving determining the expression of a CA nucleic acid in a  
CC tissue. This sequence represents a human CA gene of the invention. Note:  
CC The sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences  
XX  
SQ Sequence 256157 BP; 70370 A; 54568 C; 55511 G; 73304 T; 0 U; 2404 Other;  
XX  
Query Match 1.5%; Score 46; DB 13; Length 256157;  
Best Local Similarity 100.0%; Pred. No. 9e-11;  
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
XX  
QY 2895 GGTGATGACCTGAGCCAGAGTTCGAGACCAAGCTGGCCAAACAT 2940  
DB 192749 GGTGATGACCTGAGCCAGAGTTCGAGACCAAGCTGGCCAAACAT 192794  
XX  
RESULT 122  
ACN44350  
ID ACN44350 standard; DNA; 276276 BP.  
XX  
AC ACN44350;  
XX  
DT 18-NOV-2004 (first entry)  
XX  
DE Human genomic sequence hCG17121.  
XX  
KM Cytostatic; carcinoma; lymphoma; cancer; human; gene; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO2003073826-A2.  
XX  
PD 12-SEP-2003.  
XX  
PF 28-FEB-2003; 2003WO-US006235.  
XX  
PR 01-MAR-2002; 2002US-00087192.  
XX  
PA (SAGR-) SAGRES DISCOVERY.  
XX  
PI Morris DW;  
XX  
DR WPI; 2003-328604/31.  
XX  
PT Recombinant nucleic acid useful for diagnosis and treatment of carcinoma  
FT comprises a nucleotide sequence.  
XX  
PS Claim 1; SEQ ID NO 754; 0pp; English.  
XX  
CC The present invention relates to novel DNA and protein sequences which  
CC are associated with carcinomas. The sequences are useful for: (i) for  
CC screening drug candidates; (ii) for screening of bioactive agent capable  
CC of binding to Carcinoma Associated Protein (CAP); (iii) for screening of  
CC a bioactive agent capable of modulating the activity of CAP; (iv) for  
CC evaluating the effect of a candidate carcinoma drug; (v) for diagnosing

CC carcinoma; (vi) for inhibiting the activity of CAP; (vii) for treating  
CC carcinoma; (viii) for neutralizing the effect of CAP; (ix) as a biochip;  
CC (x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for  
CC determining Carcinoma Associated (CA) gene copy number. In addition, the  
CC CA genes are useful as DNA vaccines and the CAP are useful as markers of  
CC carcinoma including lymphoma. The present sequence is one such CA coding  
CC sequence. Note: This patent is an equivalent to basic patent  
CC US2002182586A1, for which no sequence data was published  
XX  
SQ Sequence 276276 BP; 68379 A; 69211 C; 66764 G; 71922 T; 0 U; 0 Other;  
XX  
Query Match 1.5%; Score 46; DB 11; Length 276276;  
Best Local Similarity 100.0%; Pred. No. 9e-11;  
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
XX  
QY 2888 TGAGGCAAGTGGATCACTGAGCCAGAGTTCGAGACCAAGCTGG 2933  
DB 212141 TGAGGCAAGTGGATCACTGAGCCAGAGTTCGAGACCAAGCTGG 212186  
XX  
RESULT 123  
AD059440/C  
ID AD059440 standard; DNA; 347814 BP.  
XX  
AC AD059440;  
XX  
DT 07-OCT-2004 (first entry)  
XX  
DE Human cancer-associated (CA) gene sequence SEQ ID NO.76.  
XX  
KM human; cancer-associated gene; cancer-associated protein; cytostatic;  
KM gene therapy; vaccine; tyrosine kinase antagonist;  
KM G-protein coupled receptor antagonist; cancer; lymphoma; gene; ds.  
XX  
OS Homo sapiens.  
XX  
PN WO2004058288-A1.  
XX  
PD 15-JUL-2004.  
XX  
PF 15-DEC-2003; 2003WO-US040082.  
XX  
PR 17-DEC-2002; 2002US-00322696.  
XX  
PA (SAGR-) SAGRES DISCOVERY INC.  
XX  
PI Morris DW, Malandro MS;  
XX  
DR WPI; 2004-543349/52.  
XX  
P-PSTDB; AD059442.  
XX  
PT New cancer-associated nucleic acid for diagnosing, preventing or treating  
FT cancer (e.g. lymphoma) or for screening agents that may be used for  
PT treating or preventing cancer.  
XX  
PS Claim 16; SEQ ID NO 76; 143pp; English.  
XX  
CC The present invention describes human cancer-associated (CA) nucleotide  
CC sequences (II). Also described: (1) an expression vector comprising (I);  
CC (2) a host cell comprising (I) or the expression vector; (3) a microarray  
CC for detecting a CA nucleic acid; (4) an isolated polypeptide encoded  
CC within an open reading frame of a CA sequence; (5) an isolated antibody,  
CC or its antigen binding fragment, that binds to the above polypeptide; (6)  
CC a hybridoma that produces the monoclonal antibody described above; (7) a  
CC pharmaceutical composition comprising the antibody and a pharmaceutical  
CC excipient; (8) a kit for detecting or diagnosing cancer cells, comprising  
CC the above (monoclonal) antibody or polynucleotide that selectively  
CC hybridises to any of the polynucleotide sequences mentioned above; (9)  
CC methods for diagnosing cancer or for detecting the presence or absence of  
CC cancer cells in an individual; (10) a method for inhibiting growth of  
CC cancer cells in an individual; (11) a method for delivering a therapeutic  
CC agent to cancer cells in an individual; (12) an electronic library  
CC comprising the polynucleotide or polypeptide, or their fragments,

CC mentioned above; (13) a method of screening for anticancer activity; (14)  
CC methods for detecting cancer associated with expression of a polypeptide  
CC or the presence of the antibody in a test cell or serum sample; (15) a  
CC method for screening for a bioactive agent capable of modulating the  
CC activity of a CA protein encoded by the above nucleic acid molecule; and  
CC (16) a method for treating cancers. (1) has cytoskeletal activity, and can  
CC be used in gene therapy, in vaccines, as a tyrosine kinase antagonist,  
CC and as a G-protein coupled receptor antagonist. The compositions and  
CC methods of the present invention can be used for diagnosing, preventing  
CC and treating cancer, especially lymphomas. They may also be used in  
CC screening for agents that may be used for treating or preventing cancer.  
CC The present sequence represents a human CA gene sequence, which is given  
CC in the exemplification of the present invention. Note: The sequence data  
CC for this patent did not form part of the printed specification, but was  
CC obtained in electronic format directly from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences.

XX Sequence 347814 BP, 109468 A, 63155 C, 63484 G, 111535 T, 0 U, 172 Other;  
SQ

Query Match 1.5%; Score 46; DB 12; Length 347814;  
Best Local Similarity 100.0%; Pred. No. 8,9e-11;  
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3071 CAAGATTGTGCGCACTGCATCTCCAGCTGGGCAACAGACCAAGACTC 3116  
Db 261007 CAAGATTGTGCGCACTGCATCTCCAGCTGGGCAACAGACCAAGACTC 260962

RESULT 124  
AAS27638/C  
ID AAS27638 standard; DNA, 145 BP.  
XX  
AC AAS27638;  
XX  
DT 07-NOV-2001 (first entry)  
XX  
DE DNA encoding novel signal transduction pathway protein, Seq ID 1298.  
XX  
XX Neuroprotective; cytoskeletal; dermatological; immunosuppressive; tumour;  
KM antiinflammatory; anti-HIV; antibacterial; antiinflammatory; cancer;  
KM immune system disorder; rheumatoid arthritis; inflammatory condition;  
KM organ transplant rejection; infection; hepatitis C; blood disorder;  
KM sickle cell anaemia; hyperproliferative disorder; Gaucher's disease;  
KM neurodegenerative disorder; Alzheimer's disease; Parkinson's disease;  
KM chromosomal abnormality; Down syndrome; ischaemia; renal disorder;  
KM cardiovascular; respiratory; wound healing; endocrine; Addison's disease;  
KM reproductive system; gastrointestinal; liver disorder; AIDS; ds;  
KM acquired immune deficiency syndrome.

XX Homo sapiens.  
OS  
XX  
PN WO200154733-A1.  
PD  
XX 02-AUG-2001.  
XX  
PF 17-JAN-2001; 2001WO-US001312.  
XX  
PR 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 11-JUL-2000; 2000US-0217496P.  
PR 14-JUL-2000; 2000US-0218290P.

PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225266P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226688P.  
PR 22-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 06-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230437P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 06-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232080P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 12-SEP-2000; 2000US-0231968P.  
PR 14-SEP-2000; 2000US-0232377P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 26-SEP-2000; 2000US-0235484P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235836P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236357P.  
PR 29-SEP-2000; 2000US-0236357P.  
PR 29-SEP-2000; 2000US-0236358P.  
PR 29-SEP-2000; 2000US-0236359P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 02-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239935P.  
PR 13-OCT-2000; 2000US-0239937P.  
PR 20-OCT-2000; 2000US-0240960P.  
PR 20-OCT-2000; 2000US-0241221P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241826P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0246474P.

PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249264P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249299P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0256719P.  
PR 06-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251859P.  
PR 08-DEC-2000; 2000US-0251989P.  
PR 08-DEC-2000; 2000US-0251990P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0259678P.  
PA (HUMA-) HUMAN GENOME SCI INC.  
PI Rosen CA, Barash SC, Ruben SM;  
XX WPI; 2001-465460/50.  
DR  
XX  
XX  
PT Novel polypeptides useful for diagnosing, treating, preventing and/or  
PT prognosing disorders related to the proteins, including cancers, immune  
XX disorders and neuronal disorders.  
XX  
PS Claim 1; SEQ ID NO 1298; 880pp; English.  
XX  
CC The invention relates to novel isolated polypeptides (I), and  
CC polynucleotides (II). (I), (II) and the antibody to (I) are useful for  
CC diagnosing, preventing and treating diseases including immune system  
CC disorders (e.g. congenital and acquired immunodeficiencies, autoimmune  
CC disorders (e.g. rheumatoid arthritis), inflammatory conditions, organ  
CC transplant rejections and graft versus host disease, infectious diseases  
CC (e.g. hepatitis C), bleeding disorders, haemoglobin abnormalities and  
CC other blood-related disorders (sickle cell anaemia), myeloproliferative  
CC disorders, primary haematopoietic disorders, hyperproliferative disorders  
CC (e.g. Gaucher's disease and cancer), neurodegenerative disorders (e.g.  
CC Alzheimer's disease, Parkinson's disease), chromosomal abnormalities  
CC (Down syndrome), ischaemic injury (e.g. stroke), renal disorders (e.g.  
CC glomerulonephritis), cardiovascular disorders (e.g. arrhythmia),

CC respiratory disorders, dermatological disorders, in wound healing,  
CC epithelial cell proliferation, endocrine disorders (e.g. Addison's  
CC disease), reproductive system disorders, gastrointestinal disorder  
CC (inflammatory disorders), liver disorders (cirrhosis), as stimulators of  
CC B-cell responsiveness to pathogens, activators of T-cells, to induce  
CC higher affinity antibodies, and as a means to induce tumour proliferation  
CC in pathologies e.g. acquired immune deficiency syndrome (AIDS). AAs26976-  
CC AAs27850 represent novel signal transduction pathway protein coding  
CC sequences and PCR primers of the invention  
SQ Sequence 145 BP; 13 A; 36 C; 21 G; 75 T; 0 U; 0 Other;  
Query Match 1.4%; Score 45; DB 4; Length 145;  
Best Local Similarity 100.0%; Pred. No. 3.4e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
OY 3078 GTGCCACTGCACCTCCAGCTTGCGCAACAGCAAGACTCTGTCTC 3122  
DB 120 GTGCCACTGCACCTCCAGCTTGCGCAACAGCAAGACTCTGTCTC 76  
RESULT 125  
AAK68506  
ID AAK68506 standard; DNA; 145 BP.  
XX  
XX AAK68506;  
AC  
XX 06-NOV-2001 (first entry)  
DT  
XX  
XX Human immune/haematopoietic antigen genomic sequence SEQ ID NO:23318.  
DE  
XX  
XX Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;  
KM cytosolic; gene therapy; vaccine; metastasis; ds.  
OS Homo sapiens.  
XX  
XX WO200157182-A2.  
PN  
XX  
XX 09-AUG-2001.  
FD  
XX  
PF 17-JAN-2001; 2001WO-US001354.  
XX  
XX 31-JAN-2000; 2000US-01790628P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 11-JUL-2000; 2000US-0217496P.  
PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.

PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226686P.  
PR 22-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230457P.  
PR 06-SEP-2000; 2000US-0230458P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232080P.  
PR 12-SEP-2000; 2000US-0231968P.  
PR 14-SEP-2000; 2000US-0232397P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234222P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 26-SEP-2000; 2000US-0235484P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235836P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236367P.  
PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0236802P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 02-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239935P.  
PR 13-OCT-2000; 2000US-0239937P.  
PR 20-OCT-2000; 2000US-0240960P.  
PR 20-OCT-2000; 2000US-0241221P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241826P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0244647P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 08-NOV-2000; 2000US-0246613P.

PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249246P.  
PR 17-NOV-2000; 2000US-0249257P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249299P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0256719P.  
PR 06-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251868P.  
PR 08-DEC-2000; 2000US-0251869P.  
PR 08-DEC-2000; 2000US-0251989P.  
PR 08-DEC-2000; 2000US-0251990P.  
PR 11-DEC-2000; 2000US-0254057P.  
PR 05-JAN-2001; 2001US-0259678P.  
XX  
PA (HUMA-) HUMAN GENOME SCI INC.  
XX  
PI Rosen CA, Barash SC, Ruben SM;  
XX  
XX WPI; 2001-483426/52.  
XX  
XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,  
PT useful for preventing, diagnosing and/or treating cancers and metastasis.  
XX  
XX Disclousure; SEQ ID NO 23318; 3071pp + Sequence Listing; English.  
XX  
XX AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)  
CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic  
CC activity, and can be used in gene therapy and vaccine production. (I)  
CC proteins and polynucleotides may be used in the prevention, diagnosis and  
CC treatment of diseases associated with inappropriate (I) expression. For  
CC example, they may be used to treat disorders associated with decreased  
CC expression by rectifying mutations or deletions in a patient's genome  
CC that affect the activity of (I) by expressing inactive proteins or to  
CC supplement the patient's own production of (I). Additionally, (I)  
CC polynucleotides may be used to produce the secreted (I), by inserting the  
CC nucleic acids into a host cell and culturing the cell to express the  
CC protein. (I) proteins and polynucleotides may be used to prevent,  
CC diagnose and treat immune/haematopoietic-related diseases, especially  
CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703  
CC to AAK87694 represent human immune/haematopoietic antigen genomic  
CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169  
CC represent sequences used in the exemplification of the present invention  
XX  
SQ Sequence 145 BP; 75 A; 21 C; 36 G; 13 T; 0 U; 0 Other;  
Query Match 1.4%; Score 45; DB 4; Length 145;  
Best Local Similarity 100.0%; Pred. No. 3.4e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Oy 3078 GTGGCACTGCATCTCCAGCTGGGCAACAGAGCAAGACTGTCTC 3122  
Db 26 GTGGCACTGCATCTCCAGCTGGGCAACAGAGCAAGACTGTCTC 70

RESULT 126  
AAK69250  
ID AAK69250 strand: DNA; 145 BP.  
XX  
AC AAK69250;  
XX  
DT 06-NOV-2001 (first entry)  
XX  
DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:24062.  
XX  
KW Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;  
KW cytostatic; gene therapy; vaccine; metastasis; ds.  
XX  
OS Homo sapiens.  
XX  
PN WO200157182-A2.  
XX  
PD 09-AUG-2001.  
XX  
PF 17-JAN-2001; 2001WO-US001354.  
XX  
PR 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205151P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 11-JUL-2000; 2000US-0217496P.  
PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225266P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225577P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226686P.  
PR 22-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227709P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230437P.  
PR 08-SEP-2000; 2000US-0230438P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232080P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 12-SEP-2000; 2000US-0231968P.

PR 14-SEP-2000; 2000US-0232397P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 26-SEP-2000; 2000US-0235484P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235835P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236367P.  
PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0236802P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 02-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239335P.  
PR 13-OCT-2000; 2000US-0239337P.  
PR 20-OCT-2000; 2000US-0240960P.  
PR 20-OCT-2000; 2000US-0241221P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241826P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0244674P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249264P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249299P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250391P.

PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0256719P.  
PR 06-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251868P.  
PR 08-DEC-2000; 2000US-0251869P.  
PR 08-DEC-2000; 2000US-0251989P.  
PR 08-DEC-2000; 2000US-0251990P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 03-JAN-2001; 2001US-0259678P.  
XX  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX  
XX Rosen CA, Barash SC, Ruben SM;  
XX WPI; 2001-483426/52.  
XX  
XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,  
PT useful for preventing, diagnosing and/or treating cancers and metastasis.  
XX  
XX  
PS Disclosure; SEQ ID NO 24062; 3071bp + Sequence Listing; English.

XX AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)  
CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic  
CC activity, and can be used in gene therapy and vaccine production. (I)  
CC proteins and polynucleotides may be used in the prevention, diagnosis and  
CC treatment of diseases associated with inappropriate (I) expression. For  
CC example, they may be used to treat disorders associated with decreased  
CC expression by rectifying mutations or deletions in a patient's genome  
CC that affect the activity of (I) by expressing inactive proteins or to  
CC supplement the patients own production of (I). Additionally, (I)  
CC polynucleotides may be used to produce the secreted (I), by inserting the  
CC nucleic acids into a host cell and culturing the cell to express the  
CC protein. (I) proteins and polynucleotides may be used to prevent,  
CC diagnose and treat immune/haematopoietic-related diseases, especially  
CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703  
CC to AAK87694 represent human immune/haematopoietic antigen genomic  
CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169  
CC represent sequences used in the exemplification of the present invention  
XX  
XX  
SQ Sequence 145 BP; 75 A; 21 C; 36 G; 13 T; 0 U; 0 Other;

Query Match 1.4%; Score 45; DB 4; Length 145;  
Best Local Similarity 100.0%; Pred. No. 3.4e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3078 GTGCCACTGCACCTCCAGCTTGCGCAACAGACCAAGACTCTGTCTC 3122  
Db 26 GTGCCACTGCACCTCCAGCTTGCGCAACAGACCAAGACTCTGTCTC 70

RESULT 127  
ABK44042  
ID ABK44042 standard; DNA; 145 BP.

XX AC ABK44042;

XX DT 05-JUN-2002 (first entry)

XX Genomic DNA encoding novel central nervous system protein #244.

XX Central nervous system; CNS; autoimmune disease; rheumatoid arthritis;  
KM hyperproliferative disorder; neoplasia; cardiovascular disorder;  
KM cardiac arrest; cerebrovascular disorder; ischemia; angiogenesis;  
KM nervous system disorder; Alzheimer's disease; AIDS; ocular disorder;  
KM acquired immunodeficiency virus; dysphagia; gastrointestinal disorder;  
KM adenocarcinoma; reproductive system disorder; testicular feminisation;  
KM endocrine disorder; diabetes; cancer; leukemia; neovascularisation;  
KM respiratory disorder; renal disorder; kidney failure; blood disorder;  
KM myocardial infarction; wound healing; cell proliferation; skin aging;  
KM food additive; food preservative; gene therapy; gene; ds.

OS Homo sapiens.

XX PN W0200155318-A2.

XX PD 02-AUG-2001.

XX PF 17-JAN-2001; 2001WO-US001332.

XX 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 11-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 11-JUL-2000; 2000US-0217496P.  
PR 14-JUL-2000; 2000US-0218230P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225266P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226868P.  
PR 22-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230437P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 06-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232080P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 12-SEP-2000; 2000US-0231968P.  
PR 14-SEP-2000; 2000US-0232397P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 26-SEP-2000; 2000US-0235484P.



PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235835P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236367P.  
PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0236802P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 02-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239935P.  
PR 13-OCT-2000; 2000US-0239937P.  
PR 20-OCT-2000; 2000US-0240960P.  
PR 20-OCT-2000; 2000US-0241211P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241826P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0246474P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249264P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249299P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0251989P.  
PR 06-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251868P.  
PR 08-DEC-2000; 2000US-0251869P.  
PR 08-DEC-2000; 2000US-0251899P.  
PR 08-DEC-2000; 2000US-0251909P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0259678P.  
XX  
XX  
PA (HUMA-) HUMAN GENOME SCI INC.

XX  
PI Rosen CA, Barash SC, Ruben SM;  
XX  
DR WPI; 2001-581633/65.  
XX  
PT New isolated nucleic acid encoding a protein for diagnosing, preventing,  
PT treating or ameliorating medical conditions and used as food additives or  
PT preservatives.  
XX  
PS Disclosure; SEQ ID NO 1230; 837pp; English.  
XX  
XX  
CC The invention describes an isolated nucleic acid molecule (i) encoding a  
CC novel central nervous system protein. (i) and polypeptides (iii) encoded  
CC by (i) are used to treat a medical conditions and in diagnosis of a  
CC pathological condition. Disorders which are diagnosed or treated include  
CC autoimmune diseases e.g. rheumatoid arthritis, hyperproliferative  
CC disorders e.g. neoplasms of the breast or liver, cardiovascular disorders  
CC e.g. cardiac arrest, cerebrovascular disorders e.g. cerebral ischaemia,  
CC angiogenesis, nervous system disorders e.g. Alzheimer's disease and  
CC amyotrophic lateral sclerosis, infections caused by bacteria, viruses  
CC e.g. Acquired immunodeficiency virus (AIDS) and fungi, ocular disorders  
CC e.g. corneal infection, gastrointestinal disorders e.g. dysphagia,  
CC adenocarcinomas and irritable bowel syndrome, reproductive system  
CC disorders e.g. testicular feminisation, endocrine disorders e.g. diabetes  
CC and pituitary dwarfism, cancers and disorders at the cellular level e.g.  
CC leukaemia, disorders involving neovascularisation e.g. malignancies,  
CC respiratory disorders e.g. nonallergic rhinitis, renal disorders e.g.  
CC acute kidney failure and blood related disorders e.g. myocardial  
CC infarction. The polypeptides can also be used to aid wound healing and  
CC epithelial cell proliferation, to prevent skin aging due to sunburn, to  
CC maintain organs before transplantation, for supporting cell culture of  
CC primary tissues, to regenerate tissues and in chemotaxis. The  
CC polypeptides can also be used as a food additive or preservative to  
CC increase or decrease storage capabilities, fat content, lipid, protein,  
CC carbohydrate, vitamins, minerals, cofactors and other nutritional

Query Match 1.4%; Score 45; DB 4; Length 145;  
Best Local Similarity 100.0%; Pred. No. 3.4e-10; Indels 0; Gaps 0;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
DB 3078 GTGCCACTGCACTCCAGCCTGGGCAACAGACCAAGACTCTGTCTC 3122  
26 GTGCCACTGCACTCCAGCCTGGGCAACAGACCAAGACTCTGTCTC 70

RESULT 128  
ADB94441/C  
ID ADB94441 standard; DNA; 145 BP.  
XX  
AC ADB94441;  
XX  
XX 04-DEC-2003 (first entry)  
XX  
DE Novel human protein DNA #50.  
XX  
XX  
KW ds; gene; human; autoimmune disease; Parkinson's disease; silicosis;  
KW gastrointestinal disease; atherosclerosis; haemophilia; thrombocytopenia;  
KW immunosuppressive agent; adjuvant; enhance immune response;  
KW higher affinity antibody induction;  
KW increased serum immunoglobulin concentration.  
XX  
OS Homo sapiens.  
XX  
XX US2002168711-A1.  
XX  
XX 14-NOV-2002.  
XX  
XX  
XX 17-JAN-2001; 2001US-00764868.  
XX  
XX 31-JAN-2000; 2000US-0179065P.  
XX 04-FEB-2000; 2000US-0180628P.  
XX 28-JUN-2000; 2000US-0214886P.  
XX 07-JUL-2000; 2000US-0216647P.  
XX

PR 07-JUL-2000; 2000US-0216880P.  
 PR 11-JUL-2000; 2000US-0217487P.  
 PR 11-JUL-2000; 2000US-0217496P.  
 PR 14-JUL-2000; 2000US-0218290P.  
 PR 26-JUL-2000; 2000US-0220963P.  
 PR 26-JUL-2000; 2000US-0220964P.  
 PR 14-AUG-2000; 2000US-0224518P.  
 PR 14-AUG-2000; 2000US-0224519P.  
 PR 14-AUG-2000; 2000US-0225267P.  
 PR 14-AUG-2000; 2000US-0225268P.  
 PR 14-AUG-2000; 2000US-0225270P.  
 PR 14-AUG-2000; 2000US-0225447P.  
 PR 14-AUG-2000; 2000US-0225757P.  
 PR 14-AUG-2000; 2000US-0225788P.  
 PR 22-AUG-2000; 2000US-0226868P.  
 PR 30-AUG-2000; 2000US-0228924P.  
 PR 01-SEP-2000; 2000US-0229287P.  
 PR 01-SEP-2000; 2000US-0229343P.  
 PR 01-SEP-2000; 2000US-0229344P.  
 PR 01-SEP-2000; 2000US-0229345P.  
 PR 05-SEP-2000; 2000US-0229509P.  
 PR 05-SEP-2000; 2000US-0229513P.  
 PR 08-SEP-2000; 2000US-0231413P.  
 PR 21-SEP-2000; 2000US-0234223P.  
 PR 21-SEP-2000; 2000US-0234274P.  
 PR 25-SEP-2000; 2000US-0234997P.  
 PR 27-SEP-2000; 2000US-0235834P.  
 PR 29-SEP-2000; 2000US-0236327P.  
 PR 29-SEP-2000; 2000US-0236357P.  
 PR 29-SEP-2000; 2000US-0236368P.  
 PR 29-SEP-2000; 2000US-0236369P.  
 PR 29-SEP-2000; 2000US-0236370P.  
 PR 02-OCT-2000; 2000US-0236802P.  
 PR 02-OCT-2000; 2000US-0237037P.  
 PR 02-OCT-2000; 2000US-0237038P.  
 PR 02-OCT-2000; 2000US-0237039P.  
 PR 02-OCT-2000; 2000US-0237040P.  
 PR 13-OCT-2000; 2000US-0239353P.  
 PR 20-OCT-2000; 2000US-0240960P.  
 PR 20-OCT-2000; 2000US-0241785P.  
 PR 20-OCT-2000; 2000US-0241809P.  
 PR 01-NOV-2000; 2000US-0244617P.  
 PR 17-NOV-2000; 2000US-0249299P.  
 PR 08-DEC-2000; 2000US-0251856P.  
 PR 08-DEC-2000; 2000US-0251858P.  
 PR 08-DEC-2000; 2000US-0251869P.  
 XX (ROSE/) ROSEN C A.  
 PA (RUBEN/) RUBEN S M.  
 PA (BARA/) BARASH S C.  
 PI Rosen CA, Ruben SM, Barash SC;  
 DR WPI; 2003-719985/68.  
 XX  
 PT New isolated polypeptide useful for diagnosing and treating  
 PT immunosuppressive conditions such as autoimmune disease and Parkinson's  
 PT disease.  
 XX  
 PS Disclosure; SEQ ID NO 1298; 345pp; English.  
 XX  
 CC The invention relates to an isolated polypeptide. The polypeptide is  
 CC useful for diagnosing a pathological condition or a susceptibility to a  
 CC pathological condition in a subject, by determining the presence or  
 CC amount of expression of the polypeptide in a biological sample and  
 CC diagnosing a pathological condition or a susceptibility to a pathological  
 CC condition based on the presence or amount of expression of the  
 CC polypeptide. The polypeptide is also useful for identifying a binding  
 CC partner to the polypeptide, which involves contacting the polypeptide  
 CC with a binding partner and determining whether the binding partner  
 CC effects an activity of the polypeptide. The polypeptide or the nucleic  
 CC acid encoding the polypeptide is useful for preventing, treating, or  
 CC ameliorating a medical condition, which involves administering the

CC polypeptide or the nucleic acid to a mammalian subject. The nucleic acid  
 CC is useful for diagnosing a pathological condition or a susceptibility to  
 CC a pathological condition in a subject, which involves determining the  
 CC presence or absence of a mutation in the nucleic acid, and diagnosing a  
 CC pathological condition or susceptibility to a pathological condition  
 CC based on the presence or absence of the mutation. The polypeptide, the  
 CC nucleic acid and an antibody to the polypeptide are useful for treating  
 CC autoimmune disease, Parkinson's disease, sickle cell, gastrointestinal  
 CC disease, atherosclerosis, haemophilia, thrombocytopenia. The polypeptide,  
 CC the nucleic acid and the antibody are useful as immunosuppressive agents,  
 CC as adjuvants to enhance immune responses, and as agents to induce higher  
 CC affinity antibodies and increase serum immunoglobulin concentrations. The  
 CC present sequence represents DNA encoding a novel human protein. Note: The  
 CC sequence data for this patent did not form part of the printed  
 CC specification but was obtained in electronic format direct from USPTO at  
 CC seqdata.uspto.gov/sequence.html?docid=20020168711.  
 XX  
 SQ Sequence 145 BP; 13 A; 36 C; 21 G; 75 T; 0 U; 0 Other;  
 Query Match 1.4%; Score 45; DB 10; Length 145;  
 Best Local Similarity 100.0%; Pred. No. 3.4e-10;  
 Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 3078 GTGGCACTGCACTTCAGCTGGGCAACAGCAAGCACTGTCTC 3122  
 Db 120 GTGGCACTGCACTTCAGCTGGGCAACAGCAAGCAAGCACTGTCTC 76  
 RESULT 129  
 ADI55027 standard; DNA; 145 BP.  
 XX  
 AC ADI55027;  
 XX  
 DT 22-APR-2004 (first entry)  
 XX  
 DE Novel human protein genomic DNA seq id 1230.  
 XX  
 KW neuroprotective; nootropic; antiparkinsonian; anticonvulsant;  
 KW antidiabetic; antithrombotic; antithrombotic; dermatological;  
 KW anti-inflammatory; immunosuppressive; antihypertensive; vasotropic;  
 KW anti-HIV; hepatotropic; varicella; antibacterial; fungicide;  
 KW antiparasitic; muscular; gynaecological; gastrointestinal; respiratory;  
 KW cardiovascular; antiarteriosclerotic; antiarrhythmic; cardiac;  
 KW nephrotoxic; litholytic; cytostatic; gene therapy; neural disorder;  
 KW Alzheimer's disease; Parkinson's disease; Huntington's chorea;  
 KW amyotrophic lateral sclerosis; multiple sclerosis;  
 KW immune system disorder; diabetes; rheumatoid arthritis;  
 KW systemic lupus erythematosus; autoimmune thyroiditis; haemolytic anaemia;  
 KW inflammatory bowel disease; ischaemia-reperfusion injury;  
 KW inflammatory bowel disease; Crohn's disease; infectious disease;  
 KW HIV infection; hepatitis infection; bacterial infection;  
 KW fungal infection; parasitic infection; muscular disorder;  
 KW reproductive disorder; gastrointestinal disorder; pulmonary disorder;  
 KW cardiovascular disorder; atherosclerosis; arrhythmia; myocarditis;  
 KW renal disorder; acute glomerulonephritis; pyelonephritis;  
 KW renal lithiasis; proliferative disorder; cancerous diseases; human; de.  
 XX  
 OS Homo sapiens.  
 XX  
 PN US2004018969-A1.  
 XX  
 PD 29-JAN-2004.  
 XX  
 PF 17-JAN-2001; 2001US-00764875.  
 XX  
 XX 31-JAN-2000; 2000US-0179065P.  
 PR 04-FEB-2000; 2000US-0180628P.  
 PR 24-FEB-2000; 2000US-0184664P.  
 PR 02-MAR-2000; 2000US-0186350P.  
 PR 16-MAR-2000; 2000US-0189874P.  
 PR 17-MAR-2000; 2000US-0190076P.  
 PR 18-APR-2000; 2000US-0198123P.

PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 11-JUL-2000; 2000US-0217496P.  
PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225266P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226686P.  
PR 22-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230437P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232080P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 12-SEP-2000; 2000US-0231968P.  
PR 14-SEP-2000; 2000US-023397P.  
PR 14-SEP-2000; 2000US-023398P.  
PR 14-SEP-2000; 2000US-023399P.  
PR 14-SEP-2000; 2000US-023400P.  
PR 14-SEP-2000; 2000US-023401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 26-SEP-2000; 2000US-0235484P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235836P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236367P.  
PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 13-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239935P.  
PR 20-OCT-2000; 2000US-0240960P.

PR 20-OCT-2000; 2000US-0241221P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241826P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0246474P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249246P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249299P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0256719P.  
PR 06-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251866P.  
PR 08-DEC-2000; 2000US-0251868P.  
PR 08-DEC-2000; 2000US-0251869P.  
PR 08-DEC-2000; 2000US-0251989P.  
PR 08-DEC-2000; 2000US-0251990P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0259678P.  
XX (ROSE/) ROSEN C A.  
PA (RUBEN/) RUBEN S M.  
PA (BARA/) BARASH S C.  
XX  
PI Rosen CA, Ruben SM, Barash SC;  
XX  
DK WPI; 2004-122079/12.  
XX  
XX New polypeptides and nucleic acid molecules, useful for detecting,  
PT preventing, diagnosing, prognosticating, treating or ameliorating medical  
PT conditions e.g. neural disorders, reproductive disorders or infectious  
PT diseases.  
XX  
XX Disclosure; SEQ ID NO 1230; 413pp; English.  
PS  
XX The invention describes an isolated polypeptide comprising an amino acid

CC sequence at least 90% identical to: a polypeptide fragment, domain,  
 CC epitope, or full-length protein of any one of 607 amino acid sequences  
 CC (1) described in the specification; a polypeptide fragment of (1), or the  
 CC encoded sequence contained in (1), having biological activity; or a  
 CC variant, allelic variant, or a species homologue of (1). The polypeptides  
 CC and nucleic acid molecules are useful for detecting, preventing,  
 CC diagnosing, prognosticating, treating or ameliorating medical conditions  
 CC such as neural disorders, e.g. Alzheimer's disease, Parkinson's disease,  
 CC Huntington's chorea, amyotrophic lateral sclerosis or multiple sclerosis,  
 CC immune system disorders, e.g. diabetes, rheumatoid arthritis, systemic  
 CC lupus erythematosus, autoimmune thyroiditis or haemolytic anaemia,

Query Match 1.4%; Score 45; DB 12; Length 145;  
 Best Local Similarity 100.0%; Pred. No. 3.4e-10;  
 Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3078 GTGGCACTGCACCTCGGGGCAACAGCAAGACTCTGTC 3122  
 DB 26 GTGGCACTGCACCTCGGGGCAACAGCAAGACTCTGTC 70

## RESULT 130

ACH37117  
 ID ACH37117 standard; cDNA; 492 BP.

AC ACH37117;

DT 13-OCT-2003 (first entry)

DE Human endothelial cell cDNA #5250.

KM Human; ss; sequencing by hybridisation; SBH; expressed sequence tag; EST;

XX genome mapping; biodiversity; genetic disorder.

OS Homo sapiens.

PN US2003073623-A1.

PD 17-APR-2003.

PP 30-JUL-2001; 2001US-00918995.

PR 30-JUL-2001; 2001US-00918995.

PA (DRMA/) DRMANAC R T.

PA (LABA/) LABAT I.

PA (STAC/) STACHE-CRAIN B.

PA (DICK/) DICKSON M C.

PA (JONE/) JONES L W.

PI Drmanac RT, Labat I, Stache-Crain B, Dickson MC, Jones LW;

XX WPI; 2003-615964/58.

PT New polynucleotide sequences obtained from various cDNA libraries, useful

PT as hybridization probes, as oligomers for PCR, for chromosome and gene

PT mapping, in the recombinant production of protein, or in generating

PT antisense DNA or RNA.

XX Claim 1; SEQ ID NO 24329; 44pp; English.

CC The invention relates to an isolated polynucleotide comprising any one of  
 CC 38043 cDNA sequences, appearing as ACH12789-ACH50831, whose sequence was  
 CC determined by the technique of SBH (sequencing by hybridisation). Also  
 CC included is a purified polypeptide comprising a sequence corresponding to  
 CC a reading frame of the novel polynucleotide. The nucleic acid sequences  
 CC are useful in diagnostics as expressed sequence tags (EST) for  
 CC identifying expressed genes or for physical mapping of the human genome,  
 CC in forensics, in assessing biodiversity, or in identifying mutations  
 CC responsible for genetic disorders and other traits. The nucleotide  
 CC sequences are also useful as hybridisation probes, as oligomers for PCR,  
 CC for chromosome and gene mapping, in the recombinant production of  
 CC protein, or in generating antisense DNA or RNA. The purified polypeptide

CC is useful for generating antibodies specific for it. The present sequence  
 CC is one of the 38043 isolated cDNA/EST sequences. Note: The sequence data  
 CC for this patent did not form part of the printed specification, but was  
 CC obtained in electronic format directly from USPTO at  
 CC seqdata.uspto.gov/sequence.html?DocID=20030073623

XX Sequence 492 BP; 121 A; 128 C; 137 G; 106 T; 0 U; 0 Other;

Query Match 1.4%; Score 45; DB 9; Length 492;  
 Best Local Similarity 100.0%; Pred. No. 3.3e-10;  
 Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2888 TGAGGCAAGTGTGATCACTGAGGCCAGAGATTGAGACCAAGCCTG 2932  
 DB 366 TGAGGCAAGTGTGATCACTGAGGCCAGAGATTGAGACCAAGCCTG 410

## RESULT 131

AAH13294/C  
 ID AAH13294 standard; cDNA; 568 BP.

AC AAH13294;

DT 26-JUN-2001 (first entry)

DE Human cDNA clone (3'-primer) SEQ ID NO:10129.

KM Human; primer; detection; diagnosis; antisense therapy; gene therapy; ss.

XX Homo sapiens.

PN EP1074617-A2.

PD 07-FEB-2001.

PP 28-JUL-2000; 2000EP-00116126.

PR 29-JUL-1999; 99JP-00248036.

PR 27-AUG-1999; 99JP-00300253.

PR 11-JAN-2000; 2000JP-00118776.

PR 02-MAY-2000; 2000JP-00183767.

PR 09-JUN-2000; 2000JP-00241899.

PA (HELI-) HELIX RES INST.

PA Oca T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;

PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;

XX WPI; 2001-318749/34.

PT Primer sets for synthesizing polynucleotides, particularly the 5602 full-

PT length cDNAs defined in the specification, and for the detection and/or

PT diagnosis of the abnormality of the proteins encoded by the full-length

PT cDNAs.

XX Claim 3; SEQ ID NO 10129; 2537pp + Sequence listing; English.

CC The present invention describes primer sets for synthesizing 5602 full-  
 CC length cDNAs defined in the specification. Where a primer set comprises:  
 CC (a) an oligo-dT primer and an oligonucleotide which complementary to the  
 CC complementary strand of a polynucleotide which comprises one of the 5602  
 CC nucleotide sequences defined in the specification, where the  
 CC oligonucleotide comprises at least 15 nucleotides; or (b) a combination  
 CC of an oligonucleotide comprising a sequence complementary to the  
 CC complementary strand of a polynucleotide which comprises a 5'-end  
 CC sequence and an oligonucleotide comprising a sequence complementary to a  
 CC polynucleotide which comprises a 3'-end sequence, where the  
 CC oligonucleotide comprises at least 15 nucleotides and the combination of  
 CC the 5'-end sequence/3'-end sequence is selected from those defined in the  
 CC specification. The primer sets can be used in antisense therapy and in  
 CC gene therapy. The primers are useful for synthesizing polynucleotides,  
 CC particularly full-length cDNAs. The primers are also useful for the  
 CC detection and/or diagnosis of the abnormality of the proteins encoded by

CC the full-length cDNAs. The primers allow obtaining of the full-length  
CC cDNAs easily without any specialised methods. AAH03166 to AAH13628 and  
CC AAH13633 to AAH18742 represent human cDNA sequences; AAB92446 to AAB95893  
CC represent human amino acid sequences; and AAH13629 to AAH13632 represent  
CC oligonucleotides, all of which are used in the exemplification of the  
CC present invention  
XX  
SQ Sequence 568 BP, 139 A, 144 C, 119 G, 163 T, 0 U, 3 Other;  
Query Match 1.4%; Score 45; DB 4; Length 568;  
Best Local Similarity 100.0%; Pred. No. 3.3e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0  
DY 3078 GTGCCACTGCACCTCCAGCCTGGGCAACAGAGCAAGACTCTGTCTC 3122  
Db 47 GTGCCACTGCACCTCCAGCCTGGGCAACAGAGCAAGACTCTGTCTC 3  
RESULT 132  
AEB33439  
ID AEB33439 standard; DNA; 601 BP.  
XX  
AC AEB33439;  
XX  
DT 08-SEP-2005 (first entry)  
XX  
DE Human DNA polymorphic region #1019.  
XX  
KW SNP detection; diagnosis; non-insulin dependent diabetes; obesity;  
KW antidiabetic; anorectic; endocrine disease; gastrointestinal disease;  
KW metabolic disorder; nutritional disorder; single nucleotide polymorphism;  
KW SNP; ds.  
XX  
OS Homo sapiens.  
XX  
PN US2005147987-A1.  
XX  
PD 07-JUL-2005.  
XX  
PF 19-JUN-2004; 2004US-00893315.  
XX  
PR 08-SEP-2000; 2000US-0231397P.  
PR 10-SEP-2001; 2001US-00948947.  
XX  
PA (APPL-) APPLERA CORP NY.  
XX  
PI Venter JC, Zhang JN, Liu X, Rowe W, Cravchik A, Kalush F;  
PI Naik A, Subramanian G, Woodage T;  
XX  
DR WPI; 2005-511776/52.  
XX  
PT New detection reagent capable of detecting 1, 100, 500, 1000 or 5000 or  
PT more single nucleic acid polymorphisms, useful in identifying an  
PT individual having or at risk of developing type II diabetes or obesity.  
XX  
PS Claim 13; SEQ ID NO 1202; 31pp; English.  
XX  
XX The invention relates to a detection reagent capable of detecting one or  
CC more single nucleic acid polymorphisms. The invention also relates to  
CC determining whether a trait is linked to one of the human chromosomes or  
CC its sub-region, a computer readable medium having stored in it the SNP  
CC relational information given in the specification, an isolated nucleic  
CC acid molecule for detecting at least one SNP given in the specification  
CC comprising at least about 12 contiguous nucleotides, genotyping at least  
CC one SNP position given in the specification in a sample, identifying an  
CC individual having or at risk of developing a disorder and a kit  
CC comprising at least one container containing the detection reagent.  
CC Determining whether a trait is linked to one of the human chromosomes or  
CC its sub-region comprises determining whether the trait is linked to one  
CC or more SNPs using the detection reagents. Genotyping at least one SNP  
CC position given in the specification in a sample comprises contacting the  
CC sample with a detection reagent that differentiates between alternative  
CC alleles at at least one SNP position given in the specification, and

CC	determining which allele is present at the at least one SNP position.
CC	Identifying an individual having or at risk of developing a disorder.
CC	comprises genotyping at least one SNP given in the specification in a
CC	nucleic acid sample from the individual. The disorder is type II diabetes
CC	(non-insulin dependent diabetes) or obesity. The detection reagent is
CC	useful in identifying an individual having or at risk of developing a
CC	disorder, particularly type II diabetes or obesity. This sequence
CC	represents a human DNA polymorphic region used in the scope of the
CC	invention. Note: The sequence data for this patent did not form part of
CC	the printed specification but was obtained in electronic format from
CC	USPTO at seqdata.uspto.gov/sequence.html.
XX	
SQ	Sequence 601 BP, 174 A; 133 C; 164 G; 129 T; 0 U; 1 Other;
	Query Match                      1.4%; Score 45; DB 14; Length 601;
	Best Local Similarity    100.0%; Pred.No. 3.3e-10;
	Matches    45; Conservative    0; Mismatches    0; Indels    0; Gaps    0;
Db	
	2895 GGTCGATCACCTTGAGGCCACGAAGTTGCAGACCAGCCTGGCCACA 2939
	202 GGTCGATCACCTTGAGGCCACGAAGTTGCAGACCAGCCTGGCCACA 246
RESULT_133	
ID	AAK63029 standard; cDNA; 1664 BP.
XX	
AC	AAK63029;
XX	
DT	06-NOV-2001 (first entry)
XX	
DE	Human immune/haematopoietic antigen encoding cDNA SEQ ID NO:8089.
XX	
KM	Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
KW	cytostatic; gene therapy; vaccine; metastasis, ss.
XX	
OS	Homo sapiens.
XX	
PN	WO200157182-A2.
XX	
PD	09-AUG-2001.
XX	
FP	17-JAN-2001; 2001WO-US001354.
XX	
PR	31-JAN-2000; 2000US-0179065P.
PR	04-FEB-2000; 2000US-0180628P.
PR	24-FEB-2000; 2000US-0184664P.
PR	02-MAR-2000; 2000US-0186350P.
PR	16-MAR-2000; 2000US-0189874P.
PR	17-MAR-2000; 2000US-0190076P.
PR	18-APR-2000; 2000US-0198123P.
PR	19-MAY-2000; 2000US-0205515P.
PR	07-JUN-2000; 2000US-0209467P.
PR	28-JUN-2000; 2000US-0214886P.
PR	30-JUN-2000; 2000US-0215135P.
PR	07-JUL-2000; 2000US-0216647P.
PR	07-JUL-2000; 2000US-0216880P.
PR	11-JUL-2000; 2000US-0217487P.
PR	11-JUL-2000; 2000US-0217496P.
PR	14-JUL-2000; 2000US-0218290P.
PR	26-JUL-2000; 2000US-0220963P.
PR	26-JUL-2000; 2000US-0220964P.
PR	14-AUG-2000; 2000US-0224518P.
PR	14-AUG-2000; 2000US-0224519P.
PR	14-AUG-2000; 2000US-0225213P.
PR	14-AUG-2000; 2000US-0225214P.
PR	14-AUG-2000; 2000US-0225267P.
PR	14-AUG-2000; 2000US-0225268P.
PR	14-AUG-2000; 2000US-0225270P.
PR	14-AUG-2000; 2000US-0225447P.
PR	14-AUG-2000; 2000US-0225757P.
PR	14-AUG-2000; 2000US-0225758P.



DB 333 GGATCAGCTGAGCGCAGAGTTTCGAGACCGCTGCGCAACATAG 3177  
RESULT 134  
AAK69886  
ID AAK69886 standard; DNA; 2219 BP.  
XX  
AC AAK69886;  
XX  
DT 06-NOV-2001 (first entry)  
XX  
DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:24698.  
XX  
KW Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;  
XX cytoskeletal; gene therapy; vaccine; metastasis; ds.  
XX  
OS Homo sapiens.  
XX  
PN WO200157182-A2.  
XX  
PD 09-AUG-2001.  
XX  
PF 17-JAN-2001; 2001WO-US001354.  
XX  
PR 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 11-JUL-2000; 2000US-0217496P.  
PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225266P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226682P.  
PR 22-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230437P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.

PR 08-SEP-2000; 2000US-0232080P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 12-SEP-2000; 2000US-0231968P.  
PR 14-SEP-2000; 2000US-0232387P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 26-SEP-2000; 2000US-0235484P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235836P.  
PR 29-SEP-2000; 2000US-0236337P.  
PR 29-SEP-2000; 2000US-0236357P.  
PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 02-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239935P.  
PR 13-OCT-2000; 2000US-0239937P.  
PR 20-OCT-2000; 2000US-0240960P.  
PR 20-OCT-2000; 2000US-0241221P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241826P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0246474P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249246P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249299P.

PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0256719P.  
PR 06-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251868P.  
PR 08-DEC-2000; 2000US-0251989P.  
PR 08-DEC-2000; 2000US-0251990P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0259678P.  
XX  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX Rosen CA, Barash SC, Ruben SM;  
XX WPI; 2001-483426/52.  
XX  
XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,  
PT useful for preventing, diagnosing and/or treating cancers and metastasis.  
XX  
XX Disclosure; SEQ ID NO 24698; 3071bp + Sequence Listing; English.  
XX  
XX AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)  
CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic  
CC activity, and can be used in gene therapy and vaccine production. (I)  
CC proteins and polynucleotides may be used in the prevention, diagnosis and  
CC treatment of diseases associated with inappropriate (I) expression. For  
CC example, they may be used to treat disorders associated with decreased  
CC expression by rectifying mutations or deletions in a patient's genome  
CC that affect the activity of (I) by expressing inactive proteins or to  
CC supplement the patient's own production of (I). Additionally, (I)  
CC polynucleotides may be used to produce the secreted (I), by inserting the  
CC nucleic acids into a host cell and culturing the cell to express the  
CC protein. (I) proteins and polynucleotides may be used to prevent,  
CC diagnose and treat immune/haematopoietic-related diseases, especially  
CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703  
CC to AAK87694 represent human immune/haematopoietic antigen genomic  
CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169  
CC represent sequences used in the exemplification of the present invention  
XX  
XX Sequence 2219 BP; 633 A; 508 C; 519 G; 559 T; 0 U; 0 Other;  
SQ  
Query Match 1.4%; Score 45; DB 4; Length 2219;  
Best Local Similarity 100.0%; Pred. No. 3.1e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 2888 TGAAGCAGGTGATCAGCTGAGCCAGAGTTCCAGACCAAGCCTG 2932  
Db 1966 TGAAGCAGGTGATCAGCTGAGCCAGAGTTCCAGACCAAGCCTG 2010  
RESULT 135  
AAK69865  
ID AAK69865 standard; DNA; 2219 BP.  
XX  
XX AAK69885;  
XX  
XX 06-NOV-2001 (first entry)  
XX  
XX Human immune/haematopoietic antigen genomic sequence SEQ ID NO:24697.  
DE  
XX  
XX Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;  
KM cytostatic; gene therapy; vaccine; metastasis; ds.  
XX  
XX Homo sapiens.  
XX  
XX WO200157182-A2.  
XX  
XX 09-AUG-2001.  
PD

XX  
XX 17-JAN-2001; 2001WO-US001354.  
XX  
XX 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 11-JUL-2000; 2000US-0217496P.  
PR 15-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226688P.  
PR 22-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 01-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230437P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232080P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 12-SEP-2000; 2000US-0231968P.  
PR 14-SEP-2000; 2000US-0232397P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234937P.  
PR 26-SEP-2000; 2000US-0234988P.  
PR 26-SEP-2000; 2000US-0235484P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235836P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236367P.  
PR 29-SEP-2000; 2000US-0236368P.



PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0236802P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 02-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239935P.  
PR 13-OCT-2000; 2000US-0239937P.  
PR 20-OCT-2000; 2000US-0240960P.  
PR 20-OCT-2000; 2000US-0241221P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241826P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0246474P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249246P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249299P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0256719P.  
PR 06-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251868P.  
PR 08-DEC-2000; 2000US-0251869P.  
PR 08-DEC-2000; 2000US-0251989P.  
PR 08-DEC-2000; 2000US-0251990P.  
PR 11-DEC-2000; 2000US-0254978P.  
PR 05-JAN-2001; 2001US-0259678P.  
XX  
XX  
PA (HUMA-) HUMAN GENOME SCI INC.  
XX  
XX  
PI Rosen CA, Barash SC, Ruben SM;  
XX  
XX WPI; 2001-483426/52.  
XX

PT Nucleic acids encoding human immune/haematopoietic antigen polypeptides,  
PT useful for preventing, diagnosing and/or treating cancers and metastasis.  
XX  
XX Disclosure; SEQ ID NO 24697; 3071bp + Sequence Listing; English.  
XX  
XX AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)  
CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytosolic  
CC activity, and can be used in gene therapy and vaccine production. (II)  
CC proteins and polynucleotides may be used in the prevention, diagnosis and  
CC treatment of diseases associated with inappropriate (I) expression. For  
CC example, they may be used to treat disorders associated with decreased  
CC expression by rectifying mutations or deletions in a patient's genome  
CC that affect the activity of (I) by expressing inactive proteins or to  
CC supplement the patient's own production of (I). Additionally, (I)  
CC polynucleotides may be used to produce the secreted (I), by inserting the  
CC nucleic acids into a host cell and culturing the cell to express the  
CC protein. (I) proteins and polynucleotides may be used to prevent,  
CC diagnose and treat immune/haematopoietic-related diseases, especially  
CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703  
CC to AAK7694 represent human immune/haematopoietic antigen genomic  
CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169  
CC represent sequences used in the exemplification of the present invention  
XX  
SQ Sequence 2219 BP; 633 A; 508 C; 519 G; 559 T; 0 U; 0 Other;  
  
Query Match 1.4%; Score 45; DB 4; Length 2219;  
Best Local Similarity 100.0%; Pred. No. 3.1e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 2888 TGAGGACAGTGATCACCTGAGGACGAGGTTCCAGACCACTG 2932  
DB 1966 TGAGGACAGTGATCACCTGAGGACGAGGTTCCAGACCACTG 2010  
  
RESULT 136  
AAK6256/C  
ID AAK6256 standard; DNA; 2219 BP.  
XX  
AC AAK6256;  
XX  
DT 07-NOV-2001 (first entry)  
XX  
DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:41068.  
XX  
XX Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;  
XX  
XX cytostatic; gene therapy; vaccine; metastasis; ds.  
OS Homo sapiens.  
XX  
FN WO200157182-A2.  
PD  
PD 09-AUG-2001.  
XX  
XX 17-JAN-2001; 2001WO-US001354.  
XX  
XX 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.



CC represent sequences used in the exemplification of the present invention  
XX Sequence 2219 BP; 559 A; 519 C; 508 G; 633 T; 0 U; 0 Other;  
SQ  
Query Match 1.4%; Score 45; DB 4; Length 2219;  
Best Local Similarity 100.0%; Pred. No. 3.1e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
OY 2888 TGAGGAGGTGATCCTGAGGCCAGAGGTTGAGACAGCCTG 2932  
DB 254 TGAGGAGGTGATCCTGAGGCCAGAGGTTGAGACAGCCTG 210  
RESULT 137  
ID AAK66257/C  
XX AAK66257 standard; DNA; 2219 BP.  
XX AAK66257;  
XX  
DT 07-NOV-2001 (first entry)  
XX  
DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:41069.  
XX  
KW Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;  
KV Cytostatic; gene therapy; vaccine; metastasis; ds.  
XX  
OS Homo sapiens.  
XX  
FN WO200157182-A2.  
XX  
PD 09-AUG-2001.  
XX  
PE 17-JAN-2001; 2001WO-US001354.  
XX  
XX 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-020515P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 11-JUL-2000; 2000US-0217496P.  
PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225266P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226819P.  
PR 22-AUG-2000; 2000US-0226868P.  
PR 22-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.

PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230437P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232080P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 12-SEP-2000; 2000US-0231968P.  
PR 14-SEP-2000; 2000US-0232397P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 26-SEP-2000; 2000US-0235484P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235836P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236367P.  
PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0236802P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 02-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239935P.  
PR 13-OCT-2000; 2000US-0239937P.  
PR 20-OCT-2000; 2000US-0240960P.  
PR 20-OCT-2000; 2000US-0241221P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241826P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0246474P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.

PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249264P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249299P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250150P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0256719P.  
PR 06-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251868P.  
PR 08-DEC-2000; 2000US-0251869P.  
PR 08-DEC-2000; 2000US-0251989P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0259678P.  
XX  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX  
XX Rosen CA, Barash SC, Ruben SM;  
PI WPI; 2001-483426/52.  
XX  
XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,  
PT useful for preventing, diagnosing and/or treating cancers and metastasis.  
XX  
XX  
PS Disclosure; SEQ ID NO 41069; 3071bp + Sequence listing; English.  
XX  
XX AAK54951 to AAK64702 encode the human immune/hematopoietic antigen (I)  
CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytotoxic  
CC activity, and can be used in gene therapy and vaccine production. (I)  
CC proteins and polynucleotides may be used in the prevention, diagnosis and  
CC treatment of diseases associated with inappropriate (I) expression. For  
CC example, they may be used to treat disorders associated with decreased  
CC expression by rectifying mutations or deletions in a patient's genome  
CC that affect the activity of (I) by expressing inactive proteins or to  
CC supplement the patient's own production of (I). Additionally, (I)  
CC polynucleotides may be used to produce the secreted (I), by inserting the  
CC nucleic acids into a host cell and culturing the cell to express the  
CC protein. (I) proteins and polynucleotides may be used to prevent,  
CC diagnose and treat immune/hematopoietic-related diseases, especially  
CC cancers and cancer metastases of hematopoietic-derived cells. AAK64703  
CC to AAK87694 represent human immune/hematopoietic antigen genomic  
CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169  
CC represent sequences used in the exemplification of the present invention  
XX  
XX  
SQ Sequence 2219 BP; 559 A; 519 C; 508 G; 633 T; 0 U; 0 Other;  
Query Match 1.4%; Score 45; DB 4; Length 2219;  
Best Local Similarity 100.0%; Pred. No. 3.1e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 2888 TGAGGAGGTGGATCACCCTGAGGCGAGGAGTTGAGACCAAGCCTG 2932  
Db 254 TGAGGAGGTGGATCACCCTGAGGCGAGGAGTTGAGACCAAGCCTG 210

DE Full length human cDNA useful for treating neurological disease Seq 564.  
XX  
XX gene; ss; human; oligo-capping method; diagnostic marker; gene therapy;  
XX osteoporosis; neurological disease; Alzheimer's disease;  
XX Parkinson's disease; dementia; short memory; cancer;  
XX sense or motor function; emotional reaction; fear response; panic;  
XX tranquillizer; neuroprotective; nootropic; antiparkinsonian; cyostatic;  
XX  
XX Homo sapiens.  
XX  
XX EP1447413-A2.  
XX  
XX 16-AUG-2004.  
XX  
XX 12-FEB-2004; 2004EP-00003145.  
XX  
XX 14-FEB-2003; 2003JP-00102207.  
XX 09-MAY-2003; 2003JP-00131452.  
XX  
XX (REAS-) RES ASSOC BIOTECHNOLOGY.  
XX  
XX Ilogai T, Yamamoto J, Nishikawa T, Isono Y, Sugiyama T, Otsuki T;  
PI Wakamatsu A, Ishii S, Nagai K, Irie R;  
DR WPI; 2004-583265/57.  
XX  
XX P-FSDB; ADR09014.  
XX  
XX New 1995 cDNA, useful for treating osteoporosis, neurological diseases,  
PT Alzheimer's diseases, Parkinson's diseases, dementia and various cancers.  
XX  
XX  
PS Claim 1; SEQ ID NO 564; 2686bp; English.  
XX  
XX This invention relates to novel, isolated full length human cDNA  
CC molecules and the encoded proteins thereof. Specifically, it refers to  
CC cDNA clones obtained by an oligo-capping method, where none of these  
CC clones are identical to any known human mRNAs. The present invention  
CC describes an immunoassay to identify agonists and antagonists, as well as  
CC antibodies, antisense molecules and siRNAs that can all be used to bind  
CC to and modulate expression of the cDNA molecules. As such, these  
CC molecules are useful for diagnostic markers or therapeutic targets for  
CC the various diseases or morbid states. In particular, they are useful in  
CC gene therapy for treating osteoporosis, neurological disease, Alzheimer's  
CC disease, Parkinson's disease, dementia, short memory and various cancers,  
CC as well as for maintaining equilibrium of sense or motor function, and  
CC for treating emotional reaction, fear response and panic. Accordingly,  
CC they exhibit osteopathic, neuroprotective, nootropic, antiparkinsonian,  
CC cyostatic and tranquillizer activities. This polynucleotide is a full  
CC length human cDNA sequence of the invention. NOTE: This sequence is not  
CC given in the sequence listing of the specification but can be obtained on  
CC CD-ROM from the European Patent Office, Vienna Sub-office.  
XX  
XX  
SQ Sequence 2491 BP; 509 A; 639 C; 794 G; 549 T; 0 U; 0 Other;  
Query Match 1.4%; Score 45; DB 13; Length 2491;  
Best Local Similarity 100.0%; Pred. No. 3.1e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 3078 GTGGCACTGACATCCAGCCTGGGCAACAGAGCAAGACTGTGCTC 3122  
Db 2447 GTGGCACTGACATCCAGCCTGGGCAACAGAGCAAGACTGTGCTC 2491

RESULT 138  
ADRO7058  
ID ADRO7058 standard; cDNA; 2491 BP.  
XX  
XX AC ADRO7058;  
XX  
XX DT 04-NOV-2004 (first entry)  
XX

RESULT 139  
AAH18230  
ID AAH18230 standard; cDNA; 3977 BP.  
XX  
XX AC AAH18230;  
XX  
XX DT 26-JUN-2001 (first entry)  
XX  
XX DS Human cDNA sequence SEQ ID NO:18165.  
XX

KW Human; primer; detection; diagnosis; antisense therapy; gene therapy; ss.  
XX Homo sapiens.  
OS  
XX EP1074617-A2.  
XX  
XX PD 07-FEB-2001.  
XX  
XX PF 28-JUL-2000; 2000EP-00116126.  
XX  
XX PR 29-JUL-1999; 99JP-00248036.  
PR 27-AUG-1999; 99JP-00300253.  
PR 11-JAN-2000; 2000JP-00118776.  
PR 02-MAY-2000; 2000JP-00183767.  
PR 09-JUN-2000; 2000JP-00241899.  
XX  
XX PA (HELI-) HELIX RES INST.  
PI Ota T, Iecga T, Nishikawa T, Hayaashi K, Saito K, Yamamoto J;  
PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;  
XX WPI; 2001-318749/34.  
XX  
XX PT Primer sets for synthesizing polynucleotides, particularly the 5602 full-  
PT length cDNAs defined in the specification, and for the detection and/or  
PT diagnosis of the abnormality of the proteins encoded by the full-length  
PT cDNAs.  
XX  
XX PS Claim 8; SEQ ID NO 18165; 2537bp + Sequence Listing; English.  
XX  
XX CC The present invention describes primer sets for synthesizing 5602 full-  
CC length cDNAs defined in the specification. Where a primer set comprises:  
CC (a) an oligo-dT primer and an oligonucleotide complementary to the  
CC complementary strand of a polynucleotide which comprises one of the 5602  
CC nucleotide sequences defined in the specification, where the  
CC oligonucleotide comprises at least 15 nucleotides; or (b) a combination  
CC of an oligonucleotide comprising a sequence complementary to the  
CC complementary strand of a polynucleotide which comprises a 5'-end  
CC sequence and an oligonucleotide comprising a sequence complementary to a  
CC polynucleotide which comprises a 3'-end sequence, where the  
CC oligonucleotide comprises at least 15 nucleotides and the combination of  
CC the 5'-end sequence/3'-end sequence is selected from those defined in the  
CC specification. The primer sets can be used in antisense therapy and in  
CC gene therapy. The primers are useful for synthesizing polynucleotides,  
CC particularly full-length cDNAs. The primers are also useful for the  
CC detection and/or diagnosis of the abnormality of the proteins encoded by  
CC the full-length cDNAs. The primers allow obtaining of the full-length  
CC cDNAs easily without any specialised methods. AAH03166 to AAH13628 and  
CC AAH13633 to AAH18742 represent human cDNA sequences; AAB92446 to AAB95893  
CC represent human amino acid sequences; and AAH13629 to AAH13632 represent  
CC oligonucleotides, all of which are used in the exemplification of the  
CC present invention  
XX  
XX SQ Sequence 3977 BP; 1063 A; 888 C; 987 G; 1039 T; 0 U; 0 Other;  
SQ

Query Match 1.4%; Score 45; DB 4; Length 3977;  
Best Local Similarity 100.0%; Pred. No. 3.1e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3078 GTGCGACTGACCTCCAGCTGGGCAACAGAGCAAGACTGTCGTC 3122  
DB 3931 GTGCGACTGACCTCCAGCTGGGCAACAGAGCAAGACTGTCGTC 3975

RESULT 140  
AAK69446/C  
ID AAK69446 strand; DNA; 4513 BP.  
XX  
XX AC AAK69446;  
XX  
XX DT 06-NOV-2001 (first entry)  
XX  
XX DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:24258.

XX  
KW Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;  
KW cytostatic; gene therapy; vaccine; metastasis; ds.  
XX  
XX OS Homo sapiens.  
XX  
XX PN WO200157182-A2.  
XX  
XX PD 09-AUG-2001.  
XX  
XX PF 17-JAN-2001; 2001WO-US001354.  
XX  
XX PR 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184654P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 11-JUL-2000; 2000US-0217496P.  
PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225266P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225279P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226868P.  
PR 23-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229503P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230437P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232088P.  
PR 08-SEP-2000; 2000US-0232089P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 12-SEP-2000; 2000US-0231968P.  
PR 14-SEP-2000; 2000US-0232397P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.

PR	21-SEP-2000	2000US-02344974P
PR	23-SEP-2000	2000US-02344976P
PR	25-SEP-2000	2000US-02344988P
PR	26-SEP-2000	2000US-02355848P
PR	27-SEP-2000	2000US-02355834P
PR	27-SEP-2000	2000US-02355836P
PR	29-SEP-2000	2000US-02363272P
PR	29-SEP-2000	2000US-02363277P
PR	29-SEP-2000	2000US-02363676P
PR	29-SEP-2000	2000US-02363688P
PR	29-SEP-2000	2000US-02365698P
PR	29-SEP-2000	2000US-02365700P
PR	02-OCT-2000	2000US-02368082P
PR	02-OCT-2000	2000US-02370373P
PR	02-OCT-2000	2000US-02370388P
PR	02-OCT-2000	2000US-02370398P
PR	02-OCT-2000	2000US-02370400P
PR	13-OCT-2000	2000US-02399335P
PR	13-OCT-2000	2000US-02399337P
PR	20-OCT-2000	2000US-02403960P
PR	20-OCT-2000	2000US-02411211P
PR	20-OCT-2000	2000US-02411855P
PR	20-OCT-2000	2000US-02411865P
PR	20-OCT-2000	2000US-02411878P
PR	20-OCT-2000	2000US-02418088P
PR	20-OCT-2000	2000US-02418098P
PR	20-OCT-2000	2000US-02441626P
PR	01-NOV-2000	2000US-02441677P
PR	08-NOV-2000	2000US-02464754P
PR	08-NOV-2000	2000US-02464755P
PR	08-NOV-2000	2000US-02464766P
PR	08-NOV-2000	2000US-02464776P
PR	08-NOV-2000	2000US-02466100P
PR	08-NOV-2000	2000US-02466110P
PR	08-NOV-2000	2000US-02466137P
PR	08-NOV-2000	2000US-02465288P
PR	08-NOV-2000	2000US-02465323P
PR	08-NOV-2000	2000US-02465324P
PR	08-NOV-2000	2000US-02465262P
PR	08-NOV-2000	2000US-02465276P
PR	08-NOV-2000	2000US-02465282P
PR	08-NOV-2000	2000US-02465328P
PR	08-NOV-2000	2000US-02465329P
PR	08-NOV-2000	2000US-02466099P
PR	08-NOV-2000	2000US-02466100P
PR	08-NOV-2000	2000US-02466110P
PR	08-NOV-2000	2000US-02466137P
PR	17-NOV-2000	2000US-02492111P
PR	17-NOV-2000	2000US-02492112P
PR	17-NOV-2000	2000US-02492123P
PR	17-NOV-2000	2000US-02492124P
PR	17-NOV-2000	2000US-02492125P
PR	17-NOV-2000	2000US-02492126P
PR	17-NOV-2000	2000US-02492172P
PR	17-NOV-2000	2000US-02492188P
PR	17-NOV-2000	2000US-02492299P
PR	17-NOV-2000	2000US-02493300P
PR	01-DEC-2000	2000US-02501606P
PR	01-DEC-2000	2000US-02503931P
PR	05-DEC-2000	2000US-02510330P
PR	05-DEC-2000	2000US-02511988P
PR	05-DEC-2000	2000US-02516719P
PR	06-DEC-2000	2000US-02514792P
PR	08-DEC-2000	2000US-02518656P
PR	08-DEC-2000	2000US-02518668P
PR	08-DEC-2000	2000US-02518692P
PR	08-DEC-2000	2000US-02519690P
PR	08-DEC-2000	2000US-02519690P

PR	11-DEC-2000; 2000US-0254097P.
PR	05-JAN-2001; 2001US-0259678P.
XX	
XX	(HUMA-) HUMAN GENOME SCI INC.
XX	
XX	Rosen CA, Barash SC, Ruben SM;
XX	WPI; 2001-483426/52.
XX	
PT	Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
PT	useful for preventing, diagnosing and/or treating cancers and metastasis.
XX	
PS	Disclosure; SEQ ID NO 24258; 3071bp + Sequence Listing; English.
XX	
CC	AAK54951 to AAK64702 encode the human immune/hematopoietic antigen (I)
CC	amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic
CC	activity, and can be used in gene therapy and vaccine production. (I)
CC	proteins and polynucleotides may be used in the prevention, diagnosis and
CC	treatment of diseases associated with inappropriate (I) expression. For
CC	example, they may be used to treat disorders associated with decreased
CC	expression by rectifying mutations or deletions in a patient's genome
CC	that affect the activity of (I) by expressing inactive proteins or to
CC	supplement the patient's own production of (I). Additionally, (I)
CC	polynucleotides may be used to produce the secreted (I), by inserting the
CC	nucleic acids into a host cell and culturing the cell to express the
CC	protein. (I) proteins and polynucleotides may be used to prevent,
CC	diagnose and treat immune/hematopoietic-related diseases, especially
CC	cancers and cancer metastases of hematopoietic-derived cells. AAK64703
CC	to AAK67694 represent human immune/hematopoietic antigen genomic
CC	sequences from the present invention. AAK54942 to AAK54950 and AAM82169
CC	represent sequences used in the exemplification of the present invention
XX	
SO	Sequence 4513 BP; 897 A; 1168 C; 1278 G; 1170 T; 0 U; 0 Other;
	Query Match 1.4%; Score 45; DB 4; Length 4513;
	Best Local Similarity 100.0%; Pred. No. 3e-10; Mismatches 0; Gaps 0
	Matches 45; Conservative 0; Indels 0; Gaps 0
OY	3073 AGATTGTGCCACTGCACCTCGCGCAACAGCAAGACTCT 3117
DB	2366 AGATTGTGCCACTGCACCTCGCGCAACAGCAAGACTCT 2342
	RESULT 141
	AL03041/C
ID	AL03041 standard; DNA; 6565 BP.
XX	
AC	AL03041;
XX	
DT	21-NOV-2001 (first entry)
XX	
DE	Human reproductive system related antigen DNA SEQ ID NO: 5729.
XX	
KM	Human, reproductive system related antigen; reproductive system disorder;
XX	cancer; gene therapy; ds.
XX	
OS	Homo sapiens.
PM	
XX	WO200155320-A2.
PD	
XX	02-AUG-2001.
PF	
XX	17-JAN-2001; 2001WO-US001339.
PR	
XX	31-JAN-2000; 2000US-0179065P.
PR	04-FEB-2000; 2000US-0180628P.
PR	24-FEB-2000; 2000US-0184664P.
PR	02-MAR-2000; 2000US-0186350P.
PR	16-MAR-2000; 2000US-0189874P.
PR	17-MAR-2000; 2000US-0190076P.
PR	18-APR-2000; 2000US-0198123P.
PR	19-MAY-2000; 2000US-0205515P.
PR	07-JUN-2000; 2000US-0209467P.

PR	28-JUN-2000	2000US-02148866
PR	30-JUN-2000	2000US-02151357
PR	07-JUL-2000	2000US-02166477
PR	11-JUL-2000	2000US-0216880P
PR	11-JUL-2000	2000US-0217487P
PR	14-JUL-2000	2000US-0217466P
PR	14-JUL-2000	2000US-02182630
PR	26-JUL-2000	2000US-0220963P
PR	26-JUL-2000	2000US-0220964P
PR	14-AUG-2000	2000US-0224518P
PR	14-AUG-2000	2000US-0224519P
PR	14-AUG-2000	2000US-0225123P
PR	14-AUG-2000	2000US-0225214P
PR	14-AUG-2000	2000US-0225266P
PR	14-AUG-2000	2000US-0225267P
PR	14-AUG-2000	2000US-0225268P
PR	14-AUG-2000	2000US-0225270P
PR	14-AUG-2000	2000US-0225447P
PR	14-AUG-2000	2000US-0225757P
PR	14-AUG-2000	2000US-0225758P
PR	14-AUG-2000	2000US-0225759P
PR	18-AUG-2000	2000US-0226279P
PR	22-AUG-2000	2000US-0226661P
PR	22-AUG-2000	2000US-0226688P
PR	22-AUG-2000	2000US-0227182P
PR	30-AUG-2000	2000US-0227009P
PR	30-AUG-2000	2000US-0228924P
PR	01-SEP-2000	2000US-0229287P
PR	01-SEP-2000	2000US-0229343P
PR	01-SEP-2000	2000US-0229344P
PR	01-SEP-2000	2000US-0229345P
PR	05-SEP-2000	2000US-0229509P
PR	05-SEP-2000	2000US-0229513P
PR	06-SEP-2000	2000US-0230437P
PR	06-SEP-2000	2000US-0230438P
PR	08-SEP-2000	2000US-0231242P
PR	08-SEP-2000	2000US-0231243P
PR	08-SEP-2000	2000US-0231244P
PR	08-SEP-2000	2000US-0231413P
PR	08-SEP-2000	2000US-0231414P
PR	08-SEP-2000	2000US-0232060P
PR	08-SEP-2000	2000US-0232081P
PR	12-SEP-2000	2000US-0231968P
PR	14-SEP-2000	2000US-0232397P
PR	14-SEP-2000	2000US-0232398P
PR	14-SEP-2000	2000US-0232399P
PR	14-SEP-2000	2000US-0232400P
PR	14-SEP-2000	2000US-0232401P
PR	14-SEP-2000	2000US-0232402P
PR	14-SEP-2000	2000US-0233064P
PR	14-SEP-2000	2000US-0233065P
PR	21-SEP-2000	2000US-0234223P
PR	21-SEP-2000	2000US-0234274P
PR	25-SEP-2000	2000US-0234977P
PR	25-SEP-2000	2000US-0234988P
PR	25-SEP-2000	2000US-0234989P
PR	27-SEP-2000	2000US-0235894P
PR	27-SEP-2000	2000US-0235895P
PR	29-SEP-2000	2000US-0236377P
PR	29-SEP-2000	2000US-0236378P
PR	29-SEP-2000	2000US-0236379P
PR	29-SEP-2000	2000US-0236380P
PR	02-OCT-2000	2000US-0237037P
PR	02-OCT-2000	2000US-0237038P
PR	02-OCT-2000	2000US-0237039P
PR	02-OCT-2000	2000US-0237040P
PR	13-OCT-2000	2000US-0239935P
PR	13-OCT-2000	2000US-0239937P
PR	20-OCT-2000	2000US-0240960P
PR	20-OCT-2000	2000US-0241221P
PR	20-OCT-2000	2000US-0241785P

PR	20-OCT-2000,	2000US-0241786P.
PR	20-OCT-2000,	2000US-0241787P.
PR	20-OCT-2000,	2000US-0241808P.
PR	20-OCT-2000,	2000US-0241809P.
PR	20-OCT-2000,	2000US-0241826P.
PR	01-NOV-2000,	2000US-0244617P.
PR	08-NOV-2000,	2000US-0246474P.
PR	08-NOV-2000,	2000US-0246475P.
PR	08-NOV-2000,	2000US-0246476P.
PR	08-NOV-2000,	2000US-0246477P.
PR	08-NOV-2000,	2000US-0246528P.
PR	08-NOV-2000,	2000US-0246532P.
PR	08-NOV-2000,	2000US-0246539P.
PR	08-NOV-2000,	2000US-0246552P.
PR	08-NOV-2000,	2000US-0246556P.
PR	08-NOV-2000,	2000US-0246587P.
PR	08-NOV-2000,	2000US-0246593P.
PR	17-NOV-2000,	2000US-0249207P.
PR	17-NOV-2000,	2000US-0249208P.
PR	17-NOV-2000,	2000US-0249209P.
PR	17-NOV-2000,	2000US-0249210P.
PR	17-NOV-2000,	2000US-0249211P.
PR	17-NOV-2000,	2000US-0249212P.
PR	17-NOV-2000,	2000US-0249213P.
PR	17-NOV-2000,	2000US-0249214P.
PR	17-NOV-2000,	2000US-0249215P.
PR	17-NOV-2000,	2000US-0249216P.
PR	17-NOV-2000,	2000US-0249217P.
PR	17-NOV-2000,	2000US-0249218P.
PR	17-NOV-2000,	2000US-0249244P.
PR	17-NOV-2000,	2000US-0249245P.
PR	17-NOV-2000,	2000US-0249246P.
PR	17-NOV-2000,	2000US-0249255P.
PR	17-NOV-2000,	2000US-0249257P.
PR	17-NOV-2000,	2000US-0249299P.
PR	17-NOV-2000,	2000US-0249300P.
PR	01-DEC-2000,	2000US-0250160P.
PR	01-DEC-2000,	2000US-0250319P.
PR	05-DEC-2000,	2000US-0251030P.
PR	05-DEC-2000,	2000US-0251988P.
PR	05-DEC-2000,	2000US-0256719P.
PR	06-DEC-2000,	2000US-0251479P.
PR	08-DEC-2000,	2000US-0251856P.
PR	08-DEC-2000,	2000US-0251868P.
PR	08-DEC-2000,	2000US-0251869P.
PR	08-DEC-2000,	2000US-0251989P.
PR	08-DEC-2000,	2000US-0251990P.
PR	11-DEC-2000,	2000US-0254097P.
PR	05-JAN-2001,	2001US-0259678P.
PA	(HUMA-) HUMAN GENOME SCI INC.	
XX		
XX	Rosen CA, Barash SC, Ruben SM;	
FI	WPI; 2001-465570/50.	
DR		
XX		
PT	Isolated nucleic acid molecule encoding a reproductive system antigen is used in preventing, treating or ameliorating a medical condition.	
PT		
XX		
PS	Disclosure; SEQ ID NO 5729; 1297bp + Sequence Listing; English.	
XX		
CC	The present invention provides the protein and coding sequences of a number of human reproductive system related antigens. These can be used in the prevention and treatment of reproductive system disorders, including cancer. The present sequence is a genomic sequence encoding a protein of the invention	
CC		
XX		
XX	Sequence 6565 BP; 1349 A; 1951 C; 1910 G; 1355 T; 0 U; 0 Other;	

Query Match 1.4%; Score 45; DB 4; Length 6565;  
Best Local Similarity 100.0%; Pred.No. 3e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3078 GTGGCATGTGCACTTCACCTGGGCAACAGACAGACTCTGTCTTC 3122  
Db 5140 GTGGCATGTGCACTTCACCTGGGCAACAGACAGACTCTGTCTTC 5096

RESULT 142  
AAL03042/C  
ID AAL03042 standard; DNA; 6565 BP.  
XX  
AC AAL03042;  
XX

DT 21-NOV-2001 (first entry)

XX Human reproductive system related antigen DNA SEQ ID NO: 5730.

KM Human; reproductive system related antigen; reproductive system disorder;  
cancer; Gene therapy; ds.

XX Homo sapiens.

PN W020015320-A2.

PD 02-AUG-2001.

XX 17-JAN-2001; 2001MO-US001339.

XX 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 26-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 11-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225265P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226868P.  
PR 22-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.

PR 06-SEP-2000; 2000US-0230437P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232080P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 12-SEP-2000; 2000US-0231968P.  
PR 14-SEP-2000; 2000US-0232397P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 26-SEP-2000; 2000US-0235484P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235836P.  
PR 29-SEP-2000; 2000US-0236377P.  
PR 29-SEP-2000; 2000US-0236379P.  
PR 29-SEP-2000; 2000US-0236380P.  
PR 29-SEP-2000; 2000US-0236389P.  
PR 29-SEP-2000; 2000US-0236390P.  
PR 29-SEP-2000; 2000US-0236397P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 02-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239935P.  
PR 13-OCT-2000; 2000US-0239937P.  
PR 20-OCT-2000; 2000US-0240960P.  
PR 20-OCT-2000; 2000US-0241221P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241826P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0246474P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 17-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.



PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249264P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249299P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0256719P.  
PR 06-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251868P.  
PR 08-DEC-2000; 2000US-0251869P.  
PR 08-DEC-2000; 2000US-0251899P.  
PR 08-DEC-2000; 2000US-0251990P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0259678P.  
PA (HUMA-) HUMAN GENOME SCI INC.  
XX  
PI Rosen CA, Barash SC, Ruben SM;  
XX WPI; 2001-465570/50.  
DR  
XX  
PT Isolated nucleic acid molecule encoding a reproductive system antigen is  
PT used in preventing, treating or ameliorating a medical condition.  
XX  
XX  
PS Disclosure; SEQ ID NO 5730; 1297pp + Sequence listing; English.  
XX  
XX  
CC The present invention provides the protein and coding sequences of a  
CC number of human reproductive system related antigens. These can be used  
CC in the prevention and treatment of reproductive system disorders,  
CC including cancer. The present sequence is a genomic sequence encoding a  
CC protein of the invention  
XX  
SQ Sequence 6565 BP; 1349 A; 1951 C; 1910 G; 1355 T; 0 U; 0 Other;  
Query Match 1.4%; Score 45; DB 4; Length 6565;  
Best Local Similarity 100.0%; Pred. No. 3e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Oy 3078 GTGCACCTGCACTCCAGCCTGGGCAACAGAGCAAGACTCTGTCTC 3122  
Db 5140 GTGCACCTGCACTCCAGCCTGGGCAACAGAGCAAGACTCTGTCTC 5096  
RESULT 143  
ABL97378/C  
ID ABL97378 standard; DNA; 6565 BP.  
XX  
AC ABL97378;  
XX  
DT 21-JUN-2002 (first entry)  
XX  
DE Human testicular antigen encoding DNA fragment SEQ ID NO: 2030.  
XX  
KW Human; testicular antigen; testes; cancer; metastasis; immune disorder;  
KW reproductive system disorder; urinary system disorder; gene therapy;  
KW cardiovascular disorder; respiratory disorder; neurological disorder;  
KW gastrointestinal disease; infection; cytostatic; gene; ds.  
XX  
OS Homo sapiens.  
XX  
PN WO200155317-A2.  
XX  
PD 02-AUG-2001.  
XX  
PF 17-JAN-2001; 2001WO-US001329.  
XX

PR 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 11-JUL-2000; 2000US-0217496P.  
PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225266P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226868P.  
PR 22-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227109P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230437P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232080P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 12-SEP-2000; 2000US-0231968P.  
PR 14-SEP-2000; 2000US-0232397P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 26-SEP-2000; 2000US-0235484P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235836P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236367P.  
PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0236802P.

PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 02-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239935P.  
PR 13-OCT-2000; 2000US-0239937P.  
PR 20-OCT-2000; 2000US-0240960P.  
PR 20-OCT-2000; 2000US-0241221P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241826P.  
PR 01-NOV-2000; 2000US-0246177P.  
PR 08-NOV-2000; 2000US-0246474P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249246P.  
PR 17-NOV-2000; 2000US-0249264P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249267P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249299P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250319P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 06-DEC-2000; 2000US-0251719P.  
PR 06-DEC-2000; 2000US-0251797P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251868P.  
PR 08-DEC-2000; 2000US-0251869P.  
PR 08-DEC-2000; 2000US-0251989P.  
PR 08-DEC-2000; 2000US-0251990P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0259678P.  
XX  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX  
XX PI Rosen CA, Barash SC, Ruben SM;  
XX WPI; 2001-483232/52.  
XX  
XX Nucleic acids encoding 973 human testicular antigen polypeptides, useful  
XX PT for preventing, diagnosing and/or treating testicular cancer.  
XX

PS Disclosure; SEQ ID NO 2030; 766pp; English.  
XX  
XX The present invention provides the protein and coding sequences of 973  
CC human testicular antigens, and fragments of their genomic sequences. The  
CC sequences can be used in the treatment of cardiovascular, urinary system,  
CC reproductive system, immune, respiratory, neurological and  
CC gastrointestinal disorders, infections, and particularly cancer,  
CC especially testicular cancers. The present sequence is a DNA encoding a  
XX protein fragment of the invention  
SQ Sequence 6565 BP; 1349 A; 1951 C; 1910 G; 1355 T; 0 U; 0 Other;  
Query Match 1.4%; Score 45; DB 4; Length 6565;  
Best Local Similarity 100.0%; Pred. No. 3e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 3078 GTGGCACTGCATCTCCAGCTGGGCAACAGCAAGACTCTGTCTC 3122  
DB 5140 GTGGCACTGCATCTCCAGCTGGGCAACAGCAAGACTCTGTCTC 5096  
RESULT 144  
ABL97377/C  
ID ABL97377 standard; DNA; 6565 BP.  
XX  
AC ABL97377;  
XX  
DT 21-JUN-2002 (first entry)  
XX  
DB Human testicular antigen encoding DNA fragment SEQ ID NO: 2029.  
XX  
XX Human; testicular antigen; testes; cancer; metastasis; immune disorder;  
XX reproductive system disorder; urinary system disorder; gene therapy;  
XX cardiovascular disorder; respiratory disorder; neurological disorder;  
XX gastrointestinal disease; infection; cytostatic; gene; ds.  
XX Homo sapiens.  
OS  
XX  
XX WO200155317-A2.  
PN  
XX  
PD 02-AUG-2001.  
XX  
XX 17-JAN-2001; 2001WO-US001329.  
XX  
XX 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190073P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215115P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0217488P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 11-JUL-2000; 2000US-0217496P.  
PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 14-AUG-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225266P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.



DE Human kidney aminopeptidase P genomic DNA fragment 5.  
XX Aminopeptidase; human; Amp; gene therapy; treatment; Amp-deficiency;  
XX prenatal diagnosis; angiodema; antihypertensive agent; atherosclerosis;  
KM arterial stenosis; industrial protein feed; malabsorption syndrome;  
KM proteinaceous waste degradation; additive; immunohistochemistry; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO911799-A2.  
XX  
PD 11-MAR-1999.  
XX  
PF 02-SEP-1998; 98WO-US018426.  
XX  
PR 02-SEP-1997; 97US-0057854P.  
XX  
PA (MED1-) MEDICAL COLLEGE GEORGIA RES INST.  
XX  
PI Ryan JW, Sprinkle TJC, Venema RC;  
XX WPI; 1999-205193/17.  
XX  
PT Nucleic acid encoding human aminopeptidase P.  
XX  
PS Claim 13; Page 192-201; 201pp; English.  
XX  
CC This invention describes the isolation of a novel human aminopeptidase P  
CC (Amp). This protein is used to produce recombinant Amp and can be used  
CC for gene therapy for treating Amp-deficiency conditions. Its fragments  
CC are used as primers and probes to identify patients with homozygous and  
CC heterozygous Amp deficiency, including prenatal diagnosis (patients  
CC defective in Amp are at risk of developing angiodema if treated with  
CC angiotensin-converting enzyme inhibitors), also as antisense inhibitors  
CC in cases of excessive Amp expression. The product of the invention is  
CC also used to identify Amp-expressing sequences in other animals and to  
CC generate transgenic animals, and comparisons of genomic sequences are  
CC used to detect mutations. Amp inhibitors are potentially useful as  
CC antihypertensive agents and to prevent or treat arterial (re)stenosis or  
CC atherosclerosis. The structure of Amp is used to design synthetic  
CC substrates, e.g. for use in Amp assays. Amp, which hydrolyzes N-terminal  
CC imido bonds, can be used to degrade industrial protein feeds to free  
CC amino acids, to degrade proteinaceous wastes, as additives in enzyme  
CC formulations used to treat malabsorption syndrome and for studying its  
CC biological role. Antibodies against Amp are used in immunohistochemical  
CC methods to study Amp distribution  
XX  
SQ Sequence 16595 BP; 4429 A; 4145 C; 4168 G; 3853 T; 0 U; 0 Other;  
Query Match 1.4%; Score 45; DB 2; Length 16595;  
Best Local Similarity 100.0%; Pred. No. 2.9e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 3078 GTGCGACTGCACTCCAGCTTGGCAACAGACCAAGACTCTGTC 3122  
Db 4301 GTGCGACTGCACTCCAGCTTGGCAACAGACCAAGACTCTGTC 4345  
RESULT 146  
AAS36670  
ID AAS36670 standard; DNA; 17581 BP.  
XX  
AC AAS36670;  
XX  
XX 17-DEC-2001 (first entry)  
XX  
XX Human cardiovascular system antigen genomic DNA SEQ ID No 2170.  
XX  
KM Cardiovascular system antigen; human; mouse; rabbit; goat; cat;  
KM chicken; sheep; immunosuppressive; antiarthritic; vasotropic; dog;  
KM antineumatic; antiproliferative; cytostatic; cardiant; neuroprotective;  
KM cerebroprotective; nootropic; antibacterial; virulence; fungicide; cancer;  
KM opthalmological; vulnerrary; gene therapy; autoimmune disease; neoplasm;

KM hyperproliferative disorder; breast; liver; cardiovascular disorder; ds;  
KM cerebrovascular disorder; nervous system disorder; bacterial infection;  
KM fungal infection; viral infection; ocular disorder; endocrine disorder;  
KM gastrointestinal disorder; renal disorder; respiratory disorder;  
KM wound healing; skin aging; organ transplantation; tissue regeneration;  
KM anti-infertility.  
XX  
OS Homo sapiens.  
XX  
PN WO200155321-A2.  
XX  
PD 02-AUG-2001.  
XX  
PF 17-JAN-2001; 2001WO-US001340.  
XX  
PR 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 11-JUL-2000; 2000US-0217486P.  
PR 14-JUL-2000; 2000US-0218230P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225266P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226868P.  
PR 22-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230437P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232080P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 12-SEP-2000; 2000US-0232397P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.

PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 26-SEP-2000; 2000US-0235484P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235835P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236367P.  
PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0236802P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 13-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239335P.  
PR 13-OCT-2000; 2000US-0239337P.  
PR 20-OCT-2000; 2000US-0240960P.  
PR 20-OCT-2000; 2000US-0241221P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241826P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0246474P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249264P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249277P.  
PR 17-NOV-2000; 2000US-0249299P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0256719P.  
PR 06-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251868P.

PR 08-DEC-2000; 2000US-0251869P.  
PR 08-DEC-2000; 2000US-0251989P.  
PR 08-DEC-2000; 2000US-0251990P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0259678P.  
XX  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX  
XX PI Rosen CA, Barash SC, Ruben SM;  
XX WPI; 2001-451930/48.  
XX  
XX PT New cardiovascular system related polynucleotides and polypeptides,  
XX PT useful for diagnosing, treating and/or preventing disorders of the  
XX PT cardiovascular system.  
XX  
XX PS Claim 1; SEQ ID NO 2170; 674pp; English.  
XX  
XX CC Sequences AAS35741-AAS36942 represent genomic DNA molecules, which encode  
XX CC the cardiovascular system antigen polypeptides of the invention.  
XX CC Cardiovascular system antigens and their associated polynucleotides are  
XX CC useful in the diagnosis, treatment and prevention of various types of  
XX CC disorders in e.g. humans, mice, rabbits, goats, horses, cats, dogs,  
XX CC chickens or sheep. A pathological condition can be determined by  
XX CC detecting the presence or absence of a mutation in a cardiovascular  
XX CC system antigen polynucleotide. The treatable disorders include autoimmune  
XX CC diseases such as rheumatoid arthritis, hyperproliferative disorders such  
XX CC as neoplasms of the breast or liver, cardiovascular disorders such as  
XX CC cardiac arrest, cerebrovascular disorders such as cerebral ischaemia,  
XX CC nervous system disorders such as Alzheimer's disease, infections caused  
XX CC by bacteria, viruses and fungi, ocular disorders such as corneal  
XX CC infection, endocrine disorders such as premature labour and infertility,  
XX CC gastrointestinal disorders such as Crohn's disease, renal disorders such  
XX CC as glomerulonephritis and respiratory disorders such as asthma and  
XX CC pleurisy. The polypeptides can also be used to aid wound healing, to  
XX CC prevent skin aging due to sunburn, to maintain organs before  
XX CC transplantation, to regenerate tissues and in chemotaxis. Note: The  
XX CC sequence data for this patent did not form part of the printed  
XX CC specification, but was obtained in electronic format directly from WIPO  
XX CC at ftp.wipo.int/pub/published\_pct\_sequences

Query Match 1.4%; Score 45; DB 4; Length 17581;  
Best Local Similarity 100.0%; Pred. No. 2.9e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2898 GGATCACCCTGAGGCCAGAGTTGAGACCAAGCTGGCCACATAG 2942  
Db 4841 GGATCACCCTGAGGCCAGAGTTGAGACCAAGCTGGCCACATAG 4885

RESULT 147  
AAK83984  
ID AAK83984 standard; DNA; 17581 BP.  
XX  
XX AAK83984;  
XX  
XX 07-NOV-2001 (first entry)  
XX  
XX DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:38796.  
XX  
XX KW Human, immune; haematopoietic; immune/haematopoietic antigen; cancer;  
XX KW cytostatic; gene therapy; vaccine; metabolais; ds.  
XX  
XX OS Homo sapiens.  
XX  
XX PN WO200157182-A2.  
XX  
XX 09-AUG-2001.  
XX  
XX PD 17-JAN-2001; 2001WO-US001354.  
XX  
XX PF 31-JAN-2000; 2000US-0179065P.  
XX



XX AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)  
CC amino acid sequences given in AAM62170 to AAM91921. (I) have cytosolic  
CC activity, and can be used in gene therapy and vaccine production. (I)  
CC proteins and polynucleotides may be used in the prevention, diagnosis and  
CC treatment of diseases associated with inappropriate (I) expression. For  
CC example, they may be used to treat disorders associated with decreased  
CC expression by rectifying mutations or deletions in a patient's genome  
CC that affect the activity of (I) by expressing inactive proteins or to  
CC supplement the patient's own production of (I). Additionally, (I)  
CC polynucleotides may be used to produce the secreted (I), by inserting the  
CC nucleic acids into a host cell and culturing the cell to express the  
CC protein. (I) proteins and polynucleotides may be used to prevent,  
CC diagnose and treat immune/haematopoietic-related diseases, especially  
CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703  
CC to AAK67694 represent human immune/haematopoietic antigen genomic  
CC sequences from the present invention. AAK54942 to AAK54950 and AAM62169  
CC represent sequences used in the exemplification of the present invention  
XX  
SQ Sequence 17581 BP; 4762 A; 3663 C; 4018 G; 5138 T; 0 U; 0 Other;  
  
Query Match 1.4%; Score 45; DB 4; Length 17581;  
Best Local Similarity 100.0%; Pred. No. 2.9e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 2898 GGATGACCTGAGGCGGAGGAGTTCCGAGACCAAGCTGGCCCAACTAG 2342  
Db 4841 GGATGACCTGAGGCGGAGGAGTTCCGAGACCAAGCTGGCCCAACTAG 4885  
  
RESULT 148  
ADE47364  
ID ADE47364 standard; DNA; 17581 BP.  
XX  
AC ADE47364;  
XX  
DT 29-JAN-2004 (first entry)  
XX  
XX Human cardiovascular system related genomic DNA #930.  
XX  
XX Human; cardiovascular system related polypeptide; cancer;  
KW proliferative disorder; foetal abnormality; developmental abnormality;  
KW haematopoietic disorder; AIDS; autoimmune disease; rheumatoid arthritis;  
KW inflammation; allergy; neurological disorder; Alzheimer's disease;  
KW Parkinson's disease; cognitive disorder; schizophrenia; asthma;  
KW skin disorder; psoriasis; sepsis; diabetes; atherosclerosis;  
KW cardiovascular disorder; angiogenic disorder; kidney disorder;  
KW gastrointestinal disorder; pregnancy-related disorder;  
KW endocrine disorder; gene; ds.  
XX  
OS Homo sapiens.  
XX  
XX US2003059908-A1.  
XX  
XX 27-MAR-2003.  
XX  
XX 07-MAR-2002; 2002US-00091504.  
XX  
XX 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 11-JUL-2000; 2000US-0217496P.

PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226868P.  
PR 22-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230437P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232068P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 12-SEP-2000; 2000US-0231968P.  
PR 14-SEP-2000; 2000US-0232397P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 26-SEP-2000; 2000US-0235484P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235836P.  
PR 29-SEP-2000; 2000US-0236337P.  
PR 29-SEP-2000; 2000US-0236337P.  
PR 29-SEP-2000; 2000US-0236357P.  
PR 29-SEP-2000; 2000US-0236358P.  
PR 29-SEP-2000; 2000US-0236359P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 02-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239935P.  
PR 13-OCT-2000; 2000US-0239937P.  
PR 20-OCT-2000; 2000US-0240960P.  
PR 20-OCT-2000; 2000US-0241221P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241826P.  
PR 01-NOV-2000; 2000US-0244617P.

PR 08-NOV-2000; 2000US-0246474P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249264P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249299P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0256719P.  
PR 06-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251868P.  
PR 08-DEC-2000; 2000US-0251869P.  
PR 08-DEC-2000; 2000US-0251989P.  
PR 08-DEC-2000; 2000US-0251990P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0259678P.  
PR 17-JAN-2001; 2001US-00764869.  
XX  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX  
XX Rosen CA, Ruben SM, Barash SC;  
PI  
DR WPI; 2003-743766/70.  
XX  
XX  
PT New cardiovascular system related polynucleotides and polypeptides,  
PT useful for preventing, treating, or ameliorating a medical condition,  
PT such as cancer of cardiovascular tissues and cancer metastases.  
XX  
XX  
PS Claim 1; SEQ ID NO 2170; 262pp; English.  
XX  
XX The invention relates to human cardiovascular system related polypeptides  
XX and the polynucleotides encoding them. The polypeptides, polynucleotides  
XX and antibodies to the polypeptides are useful for diagnosing a  
XX pathological condition or a susceptibility to a pathological condition,  
XX for preventing, treating, or ameliorating a medical condition, such as  
XX cancer of cardiovascular system tissues, proliferative disorders, foetal  
XX and developmental abnormalities, haematopoietic disorders, diseases of  
XX the immune system, AIDS, autoimmune diseases (e.g., Rheumatoid  
XX arthritis), inflammation, allergies, neurological disorders (e.g.,  
XX Alzheimer's disease, Parkinson's disease), cognitive disorders,  
XX schizophrenia, asthma, skin disorders (e.g., psoriasis), sepsis,

CC diabetes, atherosclerosis, cardiovascular disorders, angiogenic  
CC disorders, kidney disorders, gastrointestinal disorders, pregnancy-  
CC related disorders, endocrine disorders and infections. The nucleic acids  
CC are also useful for chromosome identification, radiation hybrid mapping  
CC or long-range restriction mapping. The polypeptides and polynucleotides  
CC may also be used as food additives or preservatives to increase or  
CC decrease storage capabilities, fat content or other nutritional  
CC components. This sequence represents human cardiovascular system related  
CC genomic DNA of the invention.  
XX  
SQ Sequence 17581 BP; 4762 A; 3663 C; 4018 G; 5138 T; 0 U; 0 Other;  
Query Match 1.4%; Score 45; DB 10; Length 17581;  
Best Local Similarity 100.0%; Pred. No. 2.9e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 2898 GGATCACCTGAGCCGAGATTGGAGACCGCCTTGCCCAACATAG 2942  
DB 4841 GGATCACCTGAGCCGAGAGTTGAGACCGCCTTGCCCAACATAG 4885  
RESULT 149  
ADJ08782  
ID ADJ08782 standard; DNA; 17581 BP.  
XX  
AC ADJ08782;  
XX  
DT 04-NOV-2004 (first entry)  
XX  
DE Human cardiovascular system associated polypeptide-related DNA SeqId2170.  
XX  
XX autoimmune disease; rheumatoid arthritis; hyperproliferative disorder;  
XX breast neoplasms; liver neoplasms; cardiovascular disorder;  
XX cardiac arrest; cerebrovascular disorder; cerebral ischaemia;  
XX angiogenesis; nervous system disorder; Alzheimer's disease; infection;  
XX ocular disorder; corneal infection; wound healing;  
XX epithelial cell proliferation; skin aging; sunburn;  
XX organ transplantation; cell culture; tissue regeneration; chemotaxis;  
XX food additive; preservative; cardiovascular system associated antigen;  
XX nuclear factor kappaB; NFkappaB; promoter element; human; ds.  
OS Homo sapiens.  
XX  
XX US2004005575-A1.  
PN  
XX  
PD 08-JAN-2004.  
XX  
XX  
PF 26-AUG-2002; 2002US-00227577.  
XX  
XX 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 11-JUL-2000; 2000US-0217486P.  
PR 14-JUL-2000; 2000US-0218293P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225266P.  
PR 14-AUG-2000; 2000US-0225267P.



PR	14-AUG-2000	2000US-0225668P
PR	14-AUG-2000	2000US-0225547P
PR	14-AUG-2000	2000US-0225470P
PR	14-AUG-2000	2000US-0225757P
PR	14-AUG-2000	2000US-0225758P
PR	14-AUG-2000	2000US-0225759P
PR	14-AUG-2000	2000US-0226279P
PR	12-AUG-2000	2000US-0226681P
PR	22-AUG-2000	2000US-0226688P
PR	22-AUG-2000	2000US-0227182P
PR	23-AUG-2000	2000US-0227009P
PR	30-AUG-2000	2000US-0228924P
PR	01-SEP-2000	2000US-0229287P
PR	01-SEP-2000	2000US-0229343P
PR	01-SEP-2000	2000US-0229344P
PR	01-SEP-2000	2000US-0229345P
PR	05-SEP-2000	2000US-0229509P
PR	05-SEP-2000	2000US-0229513P
PR	06-SEP-2000	2000US-0230437P
PR	06-SEP-2000	2000US-0230438P
PR	08-SEP-2000	2000US-0231142P
PR	08-SEP-2000	2000US-0231243P
PR	08-SEP-2000	2000US-0231344P
PR	08-SEP-2000	2000US-0231413P
PR	08-SEP-2000	2000US-0231414P
PR	08-SEP-2000	2000US-0232080P
PR	08-SEP-2000	2000US-0232081P
PR	12-SEP-2000	2000US-0231968P
PR	14-SEP-2000	2000US-0232397P
PR	14-SEP-2000	2000US-0232398P
PR	14-SEP-2000	2000US-0232400P
PR	14-SEP-2000	2000US-0232401P
PR	14-SEP-2000	2000US-0233063P
PR	14-SEP-2000	2000US-0233064P
PR	14-SEP-2000	2000US-0233065P
PR	21-SEP-2000	2000US-0233423P
PR	21-SEP-2000	2000US-0234474P
PR	25-SEP-2000	2000US-0234979P
PR	25-SEP-2000	2000US-0234980P
PR	25-SEP-2000	2000US-0235488P
PR	27-SEP-2000	2000US-0235834P
PR	27-SEP-2000	2000US-0235836P
PR	29-SEP-2000	2000US-0236327P
PR	29-SEP-2000	2000US-0236356P
PR	29-SEP-2000	2000US-0236369P
PR	29-SEP-2000	2000US-0236370P
PR	29-SEP-2000	2000US-0236802P
PR	02-OCT-2000	2000US-0237037P
PR	02-OCT-2000	2000US-0237038P
PR	02-OCT-2000	2000US-0237039P
PR	02-OCT-2000	2000US-0237040P
PR	13-OCT-2000	2000US-0239355P
PR	13-OCT-2000	2000US-0239397P
PR	20-OCT-2000	2000US-0240960P
PR	20-OCT-2000	2000US-0241211P
PR	20-OCT-2000	2000US-0241785P
PR	20-OCT-2000	2000US-0241786P
PR	20-OCT-2000	2000US-0241787P
PR	20-OCT-2000	2000US-0241808P
PR	20-OCT-2000	2000US-0241809P
PR	20-OCT-2000	2000US-0241856P
PR	01-NOV-2000	2000US-0244617P
PR	08-NOV-2000	2000US-0246474P
PR	08-NOV-2000	2000US-0246475P
PR	08-NOV-2000	2000US-0246476P
PR	08-NOV-2000	2000US-0246477P
PR	08-NOV-2000	2000US-0246478P
PR	08-NOV-2000	2000US-0246537P
PR	08-NOV-2000	2000US-0246542P
PR	08-NOV-2000	2000US-0246552P
PR	08-NOV-2000	2000US-0246553P

CC	08-NOV-2000	2000US-0246527P	
PR	08-NOV-2000	2000US-0246528P	
PR	08-NOV-2000	2000US-0246532P	
PR	08-NOV-2000	2000US-0246532P	
PR	08-NOV-2000	2000US-0246609P	
PR	08-NOV-2000	2000US-0246610P	
PR	08-NOV-2000	2000US-0246611P	
PR	08-NOV-2000	2000US-0246613P	
PR	17-NOV-2000	2000US-0249207P	
PR	17-NOV-2000	2000US-0249208P	
PR	17-NOV-2000	2000US-0249209P	
PR	17-NOV-2000	2000US-0249210P	
PR	17-NOV-2000	2000US-0249211P	
PR	17-NOV-2000	2000US-0249212P	
PR	17-NOV-2000	2000US-0249218P	
PR	17-NOV-2000	2000US-0249244P	
PR	17-NOV-2000	2000US-0249245P	
PR	17-NOV-2000	2000US-0249264P	
PR	17-NOV-2000	2000US-0249265P	
PR	17-NOV-2000	2000US-0249297P	
PR	17-NOV-2000	2000US-0249299P	
PR	17-NOV-2000	2000US-0249300P	
PR	01-DEC-2000	2000US-0250160P	
PR	01-DEC-2000	2000US-0250391P	
PR	05-DEC-2000	2000US-0251030P	
PR	05-DEC-2000	2000US-0251988P	
PR	05-DEC-2000	2000US-0256719P	
PR	06-DEC-2000	2000US-0251479P	
PR	08-DEC-2000	2000US-0251856P	
PR	08-DEC-2000	2000US-0251868P	
PR	08-DEC-2000	2000US-0251869P	
PR	08-DEC-2000	2000US-0251990P	
PR	11-DEC-2000	2000US-0254097P	
PR	05-JAN-2001	2001US-0259678P	
PR	17-JAN-2001	2001US-0076486P	
PR	07-MAR-2002	2002US-00091504	
XX	(HUMA-)	HUMAN GENOME SCI INC.	
PA			
XX			
XX			
PI	Rosen CA, Ruben SM, Barash SC,		
XX			
DR	WPI; 2004-081713/08.		
XX			
PT	New cardiovascular system-related nucleic acid molecule, useful for		
PT	diagnosing, preventing or treating diseases of the cardiovascular system,		
PT	and in chromosome mapping, drug screening or in pharmacogenomics.		
XX			
XX			
PS	Disclosure; SEQ ID NO 2170; 262pp; English.		
XX			
CC	The invention relates to an isolated nucleic acid molecule encoding a		
CC	human cardiovascular system associated polypeptide (or antigens), or its		
CC	fragment. Also included recombinant vectors, recombinant host cells, an		
CC	isolated human cardiovascular system associated polypeptide (including		
CC	its fragment, allelic variant, species homologue or epitope), an isolated		
CC	antibody that binds specifically to a human cardiovascular system		
CC	associated polypeptide, diagnosing a pathological condition or		
CC	susceptibility to a pathological condition (comprising determining the		
CC	presence or absence of a mutation in human cardiovascular system		
CC	associated nucleic acid and diagnosing a condition based on the presence		
CC	or absence of the mutation), identifying a binding partner to human		
CC	cardiovascular system associated polypeptides, the gene corresponding to		
CC	the human cardiovascular system associated cDNA sequence and identifying		
CC	an activity in a biological assay comprising expressing the human		
CC	cardiovascular system associated cDNA in a cell, isolating the		
CC	supernatant, detecting an activity in a biological assay and identifying		
CC	the protein in the supernatant having the activity. The human		
CC	cardiovascular system associated nucleic acids and polypeptides are used		
CC	to prevent, treat or ameliorate a medical condition (for example in		

CC humans, mice, rabbits, goats, horses, cats, dogs, chickens or sheep), for  
CC example autoimmune diseases such as rheumatoid arthritis,  
CC hyperproliferative disorders, for example neoplasms of the breast or  
CC liver, cardiovascular disorders, for example cardiac arrest.

Query Match 1.4%; Score 45; DB 13; Length 17581;  
Best Local Similarity 100.0%; Pred. No. 2,9e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2898 GGATCAGCTGAGGCGAGGTTGAGACCAAGCTGGCCACATAG 2942  
Db 4841 GGATCAGCTGAGGCGAGGTTGAGACCAAGCTGGCCACATAG 4885

RESULT 150  
AAS36812  
ID AAS36812 standard; DNA; 17946 BP.

AC AAS36812;

DT 17-DEC-2001 (first entry)

DE Human cardiovascular system antigen genomic DNA SEQ ID No 2312.

KM Cardiovascular system antigen; human; mouse; rabbit; goat; horse; cat;  
KM chicken; sheep; immunosuppressive; antiarthritic; vasotropic; dog;  
KM antineumatic; antiproliferative; cytosstatic; cardiant; neuroprotective;  
KM cerebroprotective; nootropic; antibacterial; virocidic; fungicide; cancer;  
KM ophthalmological; vlnarary; gene therapy; autoimmune disease; neoplasm;  
KM hyperproliferative disorder; breast; liver; cardiovascular disorder; ds;  
KM cerebrovascular disorder; nervous system disorder; bacterial infection;  
KM fungal infection; viral infection; ocular disorder; endocrine disorder;  
KM gastrointestinal disorder; renal disorder; respiratory disorder;  
KM wound healing; skin aging; organ transplantation; tissue regeneration;  
KM anti-infertility.

XX Homo sapiens.

OS WC0200155321-A2.

XX 02-AUG-2001.

PD 17-JAN-2001; 2001WO-US001340.

XX 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 11-JUL-2000; 2000US-0217496P.  
PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225266P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.

PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226688P.  
PR 22-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230437P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232080P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 12-SEP-2000; 2000US-0231968P.  
PR 14-SEP-2000; 2000US-0232377P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 26-SEP-2000; 2000US-0235464P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235836P.  
PR 29-SEP-2000; 2000US-0236377P.  
PR 29-SEP-2000; 2000US-0236378P.  
PR 29-SEP-2000; 2000US-0236379P.  
PR 29-SEP-2000; 2000US-0236380P.  
PR 29-SEP-2000; 2000US-0236381P.  
PR 29-SEP-2000; 2000US-0236382P.  
PR 29-SEP-2000; 2000US-0236383P.  
PR 29-SEP-2000; 2000US-0236384P.  
PR 29-SEP-2000; 2000US-0236385P.  
PR 29-SEP-2000; 2000US-0236386P.  
PR 29-SEP-2000; 2000US-0236387P.  
PR 29-SEP-2000; 2000US-0236388P.  
PR 29-SEP-2000; 2000US-0236389P.  
PR 29-SEP-2000; 2000US-0236390P.  
PR 29-SEP-2000; 2000US-0236391P.  
PR 29-SEP-2000; 2000US-0236392P.  
PR 29-SEP-2000; 2000US-0236393P.  
PR 29-SEP-2000; 2000US-0236394P.  
PR 29-SEP-2000; 2000US-0236395P.  
PR 29-SEP-2000; 2000US-0236396P.  
PR 29-SEP-2000; 2000US-0236397P.  
PR 29-SEP-2000; 2000US-0236398P.  
PR 29-SEP-2000; 2000US-0236399P.  
PR 29-SEP-2000; 2000US-0236400P.  
PR 29-SEP-2000; 2000US-0236401P.  
PR 29-SEP-2000; 2000US-0236402P.  
PR 29-SEP-2000; 2000US-0236403P.  
PR 29-SEP-2000; 2000US-0236404P.  
PR 29-SEP-2000; 2000US-0236405P.  
PR 29-SEP-2000; 2000US-0236406P.  
PR 29-SEP-2000; 2000US-0236407P.  
PR 29-SEP-2000; 2000US-0236408P.  
PR 29-SEP-2000; 2000US-0236409P.  
PR 29-SEP-2000; 2000US-0236410P.  
PR 29-SEP-2000; 2000US-0236411P.  
PR 29-SEP-2000; 2000US-0236412P.  
PR 29-SEP-2000; 2000US-0236413P.  
PR 29-SEP-2000; 2000US-0236414P.  
PR 29-SEP-2000; 2000US-0236415P.  
PR 29-SEP-2000; 2000US-0236416P.  
PR 29-SEP-2000; 2000US-0236417P.  
PR 29-SEP-2000; 2000US-0236418P.  
PR 29-SEP-2000; 2000US-0236419P.  
PR 29-SEP-2000; 2000US-0236420P.  
PR 29-SEP-2000; 2000US-0236421P.  
PR 29-SEP-2000; 2000US-0236422P.  
PR 29-SEP-2000; 2000US-0236423P.  
PR 29-SEP-2000; 2000US-0236424P.  
PR 29-SEP-2000; 2000US-0236425P.  
PR 29-SEP-2000; 2000US-0236426P.  
PR 29-SEP-2000; 2000US-0236427P.  
PR 29-SEP-2000; 2000US-0236428P.  
PR 29-SEP-2000; 2000US-0236429P.  
PR 29-SEP-2000; 2000US-0236430P.  
PR 29-SEP-2000; 2000US-0236431P.  
PR 29-SEP-2000; 2000US-0236432P.  
PR 29-SEP-2000; 2000US-0236433P.  
PR 29-SEP-2000; 2000US-0236434P.  
PR 29-SEP-2000; 2000US-0236435P.  
PR 29-SEP-2000; 2000US-0236436P.  
PR 29-SEP-2000; 2000US-0236437P.  
PR 29-SEP-2000; 2000US-0236438P.  
PR 29-SEP-2000; 2000US-0236439P.  
PR 29-SEP-2000; 2000US-0236440P.  
PR 29-SEP-2000; 2000US-0236441P.  
PR 29-SEP-2000; 2000US-0236442P.  
PR 29-SEP-2000; 2000US-0236443P.  
PR 29-SEP-2000; 2000US-0236444P.  
PR 29-SEP-2000; 2000US-0236445P.  
PR 29-SEP-2000; 2000US-0236446P.  
PR 29-SEP-2000; 2000US-0236447P.  
PR 29-SEP-2000; 2000US-0236448P.  
PR 29-SEP-2000; 2000US-0236449P.  
PR 29-SEP-2000; 2000US-0236450P.  
PR 29-SEP-2000; 2000US-0236451P.  
PR 29-SEP-2000; 2000US-0236452P.  
PR 29-SEP-2000; 2000US-0236453P.  
PR 29-SEP-2000; 2000US-0236454P.  
PR 29-SEP-2000; 2000US-0236455P.  
PR 29-SEP-2000; 2000US-0236456P.  
PR 29-SEP-2000; 2000US-0236457P.  
PR 29-SEP-2000; 2000US-0236458P.  
PR 29-SEP-2000; 2000US-0236459P.  
PR 29-SEP-2000; 2000US-0236460P.  
PR 29-SEP-2000; 2000US-0236461P.

PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249264P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249299P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0256719P.  
PR 06-DEC-2000; 2000US-0251477P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251868P.  
PR 08-DEC-2000; 2000US-0251869P.  
PR 08-DEC-2000; 2000US-0251989P.  
PR 08-DEC-2000; 2000US-0251990P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0259678P.  
XX  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX  
PI Rosen CA, Barash SC, Ruben SM;  
XX WPI; 2001-451930/48.  
XX  
XX New cardiovascular system related polynucleotides and polypeptides,  
PT useful for diagnosing, treating and/or preventing disorders of the  
PT cardiovascular system.  
XX  
XX Claim 1; SEQ ID NO 2312; 674bp; English.  
XX  
XX Sequences AAS3741-AAS36942 represent genomic DNA molecules, which encode  
CC the cardiovascular system antigen polypeptides of the invention.  
CC Cardiovascular system antigens and their associated polynucleotides are  
CC useful in the diagnosis, treatment and prevention of various types of  
CC disorders in e.g. humans, mice, rabbits, goats, horses, cats, dogs,  
CC chickens or sheep. A pathological condition can be determined by  
CC detecting the presence or absence of a mutation in a cardiovascular  
CC system antigen polynucleotide. The treatable disorders include autoimmune  
CC diseases such as rheumatoid arthritis, hyperproliferative disorders such  
CC as neoplasms of the breast or liver, cardiovascular disorders such as  
CC cardiac arrest, cerebrovascular disorders such as cerebral ischaemia,  
CC nervous system disorders such as Alzheimer's disease, infections caused  
CC by bacteria, viruses and fungi, ocular disorders such as corneal  
CC infection, endocrine disorders such as premature labour and infertility,  
CC gastrointestinal disorders such as Crohn's disease, renal disorders such  
CC as glomerulonephritis and respiratory disorders such as asthma and  
CC pleurisy. The polypeptides can also be used to aid wound healing, to  
CC prevent skin aging due to sunburn, to maintain organs before  
CC transplantation, to regenerate tissues and in chemotaxis. Note: The  
CC sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences  
XX

Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 2898 CGATCAGCTGAGGCCGAGAGTTTCGAGACACACCTGCGCCAACTATG 2942  
DB 7806 GATCAGCTGAGGCCGAGAGTTTCGAGACACACCTGCGCCAACTATG 7850  
RESULT 151  
ID ABA15608 standard; DNA; 17946 BP.  
XX  
XX ABA15608;  
AC  
XX  
DT 23-JAN-2002 (first entry)  
XX  
DE Human nervous system related polynucleotide SEQ ID NO 7939.  
XX  
XX Human; neurotropic; neuroprotective; cytosolic; dermatological; virocidic;  
KW immunosuppressive; anti-infectious; anti-HIV; antibacterial; vulnery;  
KW antiparkinsonian; antichilling; antianemic; antiarthritic; cancer;  
KW antineumatic; hepatotropic; cerebroprotective; antiinflammatory;  
KW antiallergic; antidiabetic; antitumor; anticonvulsant; antifungal;  
KW antiparasitic; cardiac; immune disorder; cardiovascular disorder;  
XX neurological disease; infection; nephrotropic; gene therapy; vaccine; ds.  
XX Homo sapiens.  
XX  
XX WO200159063-A2.  
XX  
PD 16-AUG-2001.  
XX  
PE 17-JAN-2001; 2001WO-US001334.  
XX  
XX 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216477P.  
PR 07-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225266P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226686P.  
PR 23-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227189P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.

Query Match 1.4%; Score 45; DB 4; Length 17946;  
Best Local Similarity 100.0%; Pred. No. 2.9e-10;



DE Human cardiovascular system related genomic DNA #1072.  
XX  
KW Human; cardiovascular system related polypeptide; cancer;  
KW proliferative disorder; foetal abnormality; developmental abnormality;  
KW haematopoietic disorder; AIDS; autoimmune disease; rheumatoid arthritis;  
KW inflammation; allergy; neurological disorder; Alzheimer's disease;  
KW Parkinson's disease; cognitive disorder; schizophrenia; asthma;  
KW skin disorder; psoriasis; sepsis; diabetes; atherosclerosis;  
KW cardiovascular disorder; angiotensin disorder; kidney disorder;  
KW gastrointestinal disorder; pregnancy-related disorder;  
KW endocrine disorder; gene; ds.  
XX  
OS Homo sapiens.  
XX  
PN US2003059908-A1.  
XX  
PD 27-MAR-2003.  
XX  
PF 07-MAR-2002; 2002US-00091504.  
XX  
PR 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0216806P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225266P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226686P.  
PR 22-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230437P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232080P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 12-SEP-2000; 2000US-0231968P.  
PR 14-SEP-2000; 2000US-0232397P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 25-SEP-2000; 2000US-0234999P.  
PR 26-SEP-2000; 2000US-0235484P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235836P.  
PR 29-SEP-2000; 2000US-0236337P.  
PR 29-SEP-2000; 2000US-0236367P.  
PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236802P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 02-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239935P.  
PR 13-OCT-2000; 2000US-0239937P.  
PR 20-OCT-2000; 2000US-0240960P.  
PR 20-OCT-2000; 2000US-0241221P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241826P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0246474P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249246P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249299P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.



PR	05-JAN-2001; 2001US-0259678P.	
PR	17-JAN-2001; 2001US-00764869.	
PR	07-MAR-2002; 2002US-00091504.	
PA	(HUMA-) HUMAN GENOME SCI INC.	
XX		
XX		
XX	Rosen CA, Ruben SM, Barash SC;	
DR	WPI; 2004-081713/08.	
XX		
PT	New cardiovascular system-related nucleic acid molecule, useful for	
PT	diagnosing, preventing or treating diseases of the cardiovascular system,	
FR	and in chromosome mapping, drug screening or in pharmacogenomics.	
XX		
PS	Disclosure; SEQ ID NO 2312; 262pp; English.	
XX		
CC	The invention relates to an isolated nucleic acid molecule encoding a	
CC	human cardiovascular system associated polypeptide (or antigen), or its	
CC	fragment. Also included recombinant vectors, recombinant host cells, an	
CC	isolated human cardiovascular system associated polypeptide (including	
CC	its fragment, allelic variant, species homologue or epitope), an isolated	
CC	antibody that binds specifically to a human cardiovascular system	
CC	associated polypeptide, diagnosing a pathological condition or	
CC	susceptibility to a pathological condition (comprising determining the	
CC	presence or absence of a mutation in human cardiovascular system	
CC	associated nucleic acid and diagnosing a condition based on the presence	
CC	or absence of the mutation), identifying a binding partner to human	
CC	cardiovascular system associated polypeptides, the gene corresponding to	
CC	the human cardiovascular system associated cDNA sequence and identifying	
CC	an activity in a biological assay comprising expressing the human	
CC	cardiovascular system associated cDNA in a cell, isolating the	
CC	supernatant, detecting an activity in a biological assay and identifying	
CC	the protein in the supernatant having the activity. The human	
CC	cardiovascular system associated nucleic acids and polypeptides are used	
CC	to prevent, treat or ameliorate a medical condition (for example in	
CC	humans, mice, rabbits, goats, horses, cats, dogs, chickens or sheep), for	
CC	example autoimmune diseases such as rheumatoid arthritis,	
CC	hyperproliferative disorders, for example neoplasms of the breast or	
CC	liver, cardiovascular disorders, for example cardiac arrest.	
Query Match	1.4%; Score 45; DB 13; Length 17946;	
Best Local Similarity	100.0%; Pred. No. 2.9e-10;	
Matches	45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
Gy	2898 GGATCACCCTGAGGCGCAGAGTTCGAGCCAGCCCTGGCCACATG 2942	
Db	7806 GGATCACCCTGAGGCGCAGAGTTCGAGCCAGCCCTGGCCACATG 7850	
RESULT 154		
ACN451138		
ID	ACN451138 standard; DNA; 23694 BP.	
XX		
AC	ACN451138;	
XX		
DT	18-NOV-2004 (first entry)	
XX		
DB	Human genomic sequence hCG17175.	
XX		
KW	Cytostatic; carcinoma; lymphoma; cancer; human; gene; ss.	
OS	Homo sapiens.	
XX		
XX	WO2003073826-A2.	
PD	12-SBP-2003.	
XX		
PF	28-FEB-2003; 2003WO-US006235.	
XX		
PR	01-MAR-2002; 2002US-00087192.	
XX		
XX	(SAGR-) SAGRES DISCOVERY.	

PI Morris DW;  
XX WPI; 2003-328604/31.  
XX  
PT Recombinant nucleic acid useful for diagnosis and treatment of carcinoma  
PT comprises a nucleotide sequence.  
XX  
PS Claim 1; SEQ ID NO 1936; Opp; English.  
XX  
CC The present invention relates to novel DNA and protein sequences which  
CC are associated with carcinomas. The sequences are useful for: (i) for  
CC screening drug candidates; (ii) for screening of bioactive agent capable  
CC of binding to Carcinoma Associated Protein (CAP); (iii) for screening of  
CC a bioactive agent capable of modulating the activity of CAP; (iv) for  
CC evaluating the effect of a candidate carcinoma drug; (v) for diagnosing  
CC carcinoma; (vi) for inhibiting the activity of CAP; (vii) for treating  
CC carcinoma; (viii) for neutralizing the effect of CAP; (ix) as a bioclip;  
CC (x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for  
CC determining Carcinoma Associated (CA) gene copy number. In addition, the  
CC CA genes are useful as DNA vaccines and the CAP are useful as markers of  
CC carcinoma including lymphoma. The present sequence is one such CA coding  
CC sequence. Note: This patent is an equivalent to basic patent  
CC US2002182586A1, for which no sequence data was published  
XX  
SQ Sequence 23694 BP; 5742 A; 6329 C; 5736 G; 5781 T; 0 U; 106 Other;  
XX  
Query Match 1.4%; Score 45; DB 11; Length 23694;  
Best Local Similarity 100.0%; Pred. No. 2.9e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 3077 TGTGCACTGCATCTCCAGCCTGGGCAACAGAGCAAGACTGTGCT 3121  
DB 18194 TGTGCACTGCATCTCCAGCCTGGGCAACAGAGCAAGACTGTGCT 18238  
RESULT 155  
ACN44954  
ID ACN44954 standard; DNA; 31116 BP.  
XX  
AC ACN44954;  
XX  
DT 18-NOV-2004 (first entry)  
XX  
DE Human genomic sequence hCG38622.  
XX  
KM Cytostatic; carcinoma; lymphoma; cancer; human; gene; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO2003073826-A2.  
XX  
PD 12-SEP-2003.  
XX  
PF 28-FEB-2003; 2003WO-US006235.  
XX  
PR 01-MAR-2002; 2002US-00087192.  
XX  
PA (SAGR-) SAGRES DISCOVERY.  
XX  
PI Morris DW;  
XX  
DR WPI; 2003-328604/31.  
XX  
PT Recombinant nucleic acid useful for diagnosis and treatment of carcinoma  
PT comprises a nucleotide sequence.  
XX  
PS Claim 1; SEQ ID NO 1660; Opp; English.  
XX  
CC The present invention relates to novel DNA and protein sequences which  
CC are associated with carcinomas. The sequences are useful for: (i) for  
CC screening drug candidates; (ii) for screening of bioactive agent capable  
CC of binding to Carcinoma Associated Protein (CAP); (iii) for screening of  
CC a bioactive agent capable of modulating the activity of CAP; (iv) for

CC evaluating the effect of a candidate carcinoma drug; (v) for diagnosing  
CC carcinoma; (vi) for inhibiting the activity of CAP; (vii) for treating  
CC carcinoma; (viii) for neutralizing the effect of CAP; (ix) as a bioclip;  
CC (x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for  
CC determining Carcinoma Associated (CA) gene copy number. In addition, the  
CC CA genes are useful as DNA vaccines and the CAP are useful as markers of  
CC carcinoma including lymphoma. The present sequence is one such CA coding  
CC sequence. Note: This patent is an equivalent to basic patent  
CC US2002182586A1, for which no sequence data was published  
XX  
SQ Sequence 31116 BP; 7214 A; 8217 C; 7722 G; 7963 T; 0 U; 0 Other;  
XX  
Query Match 1.4%; Score 45; DB 11; Length 31116;  
Best Local Similarity 100.0%; Pred. No. 2.8e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 3078 GTGCCACTGCATCTCCAGCCTGGGCAACAGAGCAAGACTGTGCTC 3122  
DB 6981 GTGCCACTGCATCTCCAGCCTGGGCAACAGAGCAAGACTGTGCTC 7025  
RESULT 156  
ADZ13255  
ID ADZ13255 standard; DNA; 31279 BP.  
XX  
AC ADZ13255;  
XX  
DT 16-JUN-2005 (first entry)  
XX  
DE Human cancer-associated genomic DNA #63.  
XX  
KM Diagnosis; DNA microarray; microarray; bioclip; cancer; neoplasm;  
XX  
OS Cytostatic; gene; ds.  
XX  
OS Homo sapiens.  
XX  
PN WO2005031001-A2.  
XX  
PD 07-APR-2005.  
XX  
PF 23-SEP-2004; 2004WO-US031617.  
XX  
PR 23-SEP-2003; 2003US-00669920.  
XX  
PA (CHIR) CHIRON CORP.  
XX  
PI Morris DW, Malandro MS;  
XX  
DR WPI; 2005-273395/28.  
XX  
PT Nucleic acid array useful for detecting cancer associated nucleic acid,  
PT comprises two or more nucleic acid probes.  
XX  
PS Disclosure; SEQ ID NO 775; 198pp; English.  
XX  
CC The invention relates to a nucleic acid array for detecting a cancer  
CC associated (CA) nucleic acid, comprising two or more nucleic acid probes.  
CC The invention also relates to a peptide array comprising two or more  
CC isolated polypeptides encoded by a CA nucleic acid sequence, a compound  
CC that binds to a polypeptide, which is prepared by immunizing a host animal  
CC with a composition comprising the polypeptide or its antigen binding  
CC fragment and collecting cells from the host expressing antibodies against  
CC the antigen or its antigen binding fragment, a composition comprising the  
CC antibody and a carrier, a method of screening for anticancer activity, a  
CC method of detecting a CA nucleic acid, a method of inhibiting expression of a  
CC nucleic acid in a cell. The CA nucleic acids are useful for detecting CA  
CC nucleic acids. The antibody is useful for detecting the presence or  
CC absence of cancer cells in an individual which involves contacting cells  
CC from the individual with the antibody and detecting a complex of a CA  
CC protein from the cancer cells and the antibody, where the detection of  
CC the complex correlates with the presence of cancer cells in the



CC individual. The composition is useful for inhibiting growth of cancer  
CC cells in an individual or for delivering a therapeutic agent to cancer  
CC cells in an individual. The invention is also useful for diagnosing  
CC cancer, for treating cancer and for inhibiting expression of a CA gene in  
CC a cell. This sequence represents human cancer-associated genomic DNA of  
CC the invention.

XX  
SQ Sequence 31279 BP; 7246 A; 8268 C; 7755 G; 8010 T; 0 U; 0 Other;

Query Match 1.4%; Score 45; DB 14; Length 31279;  
Best Local Similarity 100.0%; Pred. No. 2.8e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3078 GTGCCACTGCCTCCAGCTGGGCAACAGACAGACTGTCTC 3122  
DB 7137 GTGCCACTGCCTCCAGCTGGGCAACAGACAGACTGTCTC 7181

RESULT 157

ID ACN45014 standard; DNA; 32706 BP.

XX ACN45014;

XX 18-NOV-2004 (first entry)

XX Human genomic sequence hCG14907.

XX Cytostatic; carcinoma; lymphoma; cancer; human; gene; ss.

XX Homo sapiens.

XX WO2003073826-A2.

XX 12-SEP-2003.

XX 28-FEB-2003; 2003WO-US006235.

XX 01-MAR-2002; 2002US-00087192.

XX (SAGR-) SAGRES DISCOVERY.

XX Morris DW;

XX WPI; 2003-328604/31.

PT Recombinant nucleic acid useful for diagnosis and treatment of carcinoma  
XX comprises a nucleotide sequence.

PS Claim 1; SEQ ID NO 1750; Opp; English.

XX The present invention relates to novel DNA and protein sequences which  
XX are associated with carcinomas. The sequences are useful for: (i) for  
XX screening drug candidates; (ii) for screening of bioactive agent capable  
XX of binding to Carcinoma Associated Protein (CAP); (iii) for screening of  
XX a bioactive agent capable of modulating the activity of CAP; (iv) for  
XX evaluating the effect of a candidate carcinoma drug; (v) for treating  
XX carcinoma; (vi) for inhibiting the activity of CAP; (vii) for treating  
XX carcinoma; (viii) for neutralizing the effect of CAP; (ix) as a biochip;  
XX (x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for  
XX determining Carcinoma Associated (CA) gene copy number. In addition, the  
XX CA genes are useful as DNA vaccines and the CAP are useful as markers of  
XX carcinoma including lymphoma. The present sequence is one such CA coding  
XX sequence. Note: This patent is an equivalent to basic patent  
XX US2002182586A1, for which no sequence data was published

SO Sequence 32706 BP; 8225 A; 7861 C; 8277 G; 8343 T; 0 U; 0 Other;

Query Match 1.4%; Score 45; DB 11; Length 32706;  
Best Local Similarity 100.0%; Pred. No. 2.8e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2898 GGATCACTGAGGCCAGAGTTCCAGACAGCCTGGCCAACTAG 2942

DB 15591 GGATCACTGAGGCCAGAGTTCCAGACAGCCTGGCCAACTAG 15635

RESULT 158

ID ADL82795/C

XX ADL82795 standard; DNA; 36534 BP.

XX ADL82795;

XX 20-MAY-2004 (first entry)

XX Human semaphorin3B, SEMA3B, DNA.

XX cancer cell proliferation; semaphorin3B, SEMA3B; cancer; tumour growth;  
XX apoptosis; human; de; gene.

XX Homo sapiens.

XX US2003166557-A1.

XX 04-SEP-2003.

XX 31-OCT-2002; 2002US-00285351.

XX 31-OCT-2001; 2001US-0335783P.

XX (TEXA ) UNIV TEXAS SYSTEM.

XX Minna J, Tomizawa Y, Sekido Y, Lerman M;

XX WPI; 2003-898098/82.

XX P-PSDB; ADL82793.

XX Inhibiting the proliferation of a cancer cell (e.g. breast cancer cell;  
XX lung cancer cell or prostate cancer cell) comprises contacting the cell  
XX with a semaphorin3B polypeptide that suppresses tumor growth.

XX Disclosure; SEQ ID NO 3; 75pp; English.

XX The invention relates to a method of inhibiting the proliferation of a  
XX cancer cell comprises contacting the cell with a semaphorin3B (SEMA3B)  
XX polypeptide. The composition and methods are useful in diagnosing or  
XX treating cancer. The SEMA3B polypeptide inhibits tumour growth and  
XX induces apoptosis in cancer cells. The present sequence represents DNA  
XX encoding human semaphorin3B, SEMA3B.

XX Sequence 36534 BP; 7493 A; 10597 C; 10438 G; 8006 T; 0 U; 0 Other;

Query Match 1.4%; Score 45; DB 11; Length 36534;  
Best Local Similarity 100.0%; Pred. No. 2.8e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3078 GTGCCACTGCCTCCAGCTGGGCAACAGACAGACTGTCTC 3122  
DB 7478 GTGCCACTGCCTCCAGCTGGGCAACAGACAGACTGTCTC 7434

RESULT 159

ID AEB32373/C

XX AEB32373 standard; DNA; 38678 BP.

XX AEB32373;

XX 08-SEP-2005 (first entry)

XX Human genomic DNA #14.

XX SNP detection; diagnosis; non-insulin dependent diabetes; obesity;  
XX anti-diabetic; anorectic; endocrine disease; gastrointestinal disease;  
XX metabolic disorder; nutritional disorder; gene; de.

XX Homo sapiens.

XX US2005147987-A1.  
XX  
XX 07-JUL-2005.  
XX  
XX 19-JUL-2004; 2004US-00893315.  
XX  
XX 08-SEP-2000; 2000US-0231397P.  
XX 10-SEP-2001; 2001US-00948947.  
XX  
XX (APPL-) APPLERA CORP NY.  
XX  
XX Venter JC, Zhang JN, Liu X, Rowe W, Cravchik A, Kalush F;  
XX Naik A, Subramanian G, Woodage T;  
XX WPI; 2005-511776/52.  
XX  
XX New detection reagent capable of detecting 1, 100, 500, 1000 or 5000 or  
XX PT more single nucleic acid polymorphisms, useful in identifying an  
XX PT individual having or at risk of developing type II diabetes or obesity.  
XX  
XX Disclosure; SEQ ID NO 136; 31pp; English.  
XX  
XX The invention relates to a detection reagent capable of detecting one or  
XX CC more single nucleic acid polymorphisms. The invention also relates to  
XX CC determining whether a trait is linked to one of the human chromosomes or  
XX CC its sub-region, a computer readable medium having stored in it the SNP  
XX CC relational information given in the specification, an isolated nucleic  
XX CC acid molecule for detecting at least one SNP given in the specification  
XX CC comprising at least about 12 contiguous nucleotides, genotyping at least  
XX CC one SNP position given in the specification in a sample, identifying an  
XX CC individual having or at risk of developing a disorder and a kit  
XX CC comprising at least one container containing the detection reagent.  
XX CC Determining whether a trait is linked to one of the human chromosomes or  
XX CC its sub-region comprises determining whether the trait is linked to one  
XX CC or more SNPs using the detection reagents. Genotyping at least one SNP  
XX CC position given in the specification in a sample comprises contacting the  
XX CC sample with a detection reagent that differentiates between alternative  
XX CC alleles at at least one SNP position given in the specification, and  
XX CC determining which allele is present at the at least one SNP position.  
XX CC Identifying an individual having or at risk of developing a disorder  
XX CC comprises genotyping at least one SNP given in the specification in a  
XX CC nucleic acid sample from the individual. The disorder is type II diabetes  
XX CC (non-insulin dependent diabetes) or obesity. The detection reagent is  
XX CC useful in identifying an individual having or at risk of developing a  
XX CC disorder, particularly type II diabetes or obesity. This sequence  
XX CC represents human genomic DNA used in the scope of the invention. Note:  
XX CC The sequence data for this patent did not form part of the printed  
XX CC specification but was obtained in electronic format from USPTO at  
XX CC seqdata.uspto.gov/sequence.html.  
XX  
XX Sequence 38678 BP; 9340 A; 9040 C; 9074 G; 10537 T; 0 U; 687 Other;  
SQ  
Query Match 1.4%; Score 45; DB 14; Length 38678;  
Best Local Similarity 100.0%; Pred. No. 2.8e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 2895 GGTGATCACCCTGAGGCCAGAGTTTCAGACCACTGCGCCAA 2939  
Db 23579 GGTGATCACCCTGAGGCCAGAGTTTCAGACCACTGCGCCAA 23535  
RESULT 160  
ID ABB32391 standard; DNA; 38684 BP.  
XX  
XX ABB32391;  
XX  
XX AC  
XX 08-SEP-2005 (first entry)  
XX  
XX DT Human genomic DNA #32.  
XX  
XX SNP detection; diagnosis; non-insulin dependent diabetes; obesity;  
XX  
XX KM

antiabetic; anorectic; endocrine disease; gastrointestinal disease;  
XX metabolic disorder; nutritional disorder; gene; ds.  
XX  
XX Homo sapiens.  
XX  
XX US2005147987-A1.  
XX  
XX 07-JUL-2005.  
XX  
XX 19-JUL-2004; 2004US-00893315.  
XX  
XX 08-SEP-2000; 2000US-0231397P.  
XX 10-SEP-2001; 2001US-00948947.  
XX  
XX (APPL-) APPLERA CORP NY.  
XX  
XX Venter JC, Zhang JN, Liu X, Rowe W, Cravchik A, Kalush F;  
XX Naik A, Subramanian G, Woodage T;  
XX WPI; 2005-511776/52.  
XX  
XX New detection reagent capable of detecting 1, 100, 500, 1000 or 5000 or  
XX PT more single nucleic acid polymorphisms, useful in identifying an  
XX PT individual having or at risk of developing type II diabetes or obesity.  
XX  
XX Disclosure; SEQ ID NO 154; 31pp; English.  
XX  
XX The invention relates to a detection reagent capable of detecting one or  
XX CC more single nucleic acid polymorphisms. The invention also relates to  
XX CC determining whether a trait is linked to one of the human chromosomes or  
XX CC its sub-region, a computer readable medium having stored in it the SNP  
XX CC relational information given in the specification, an isolated nucleic  
XX CC acid molecule for detecting at least one SNP given in the specification  
XX CC comprising at least about 12 contiguous nucleotides, genotyping at least  
XX CC one SNP position given in the specification in a sample, identifying an  
XX CC individual having or at risk of developing a disorder and a kit  
XX CC comprising at least one container containing the detection reagent.  
XX CC Determining whether a trait is linked to one of the human chromosomes or  
XX CC its sub-region comprises determining whether the trait is linked to one  
XX CC or more SNPs using the detection reagents. Genotyping at least one SNP  
XX CC position given in the specification in a sample comprises contacting the  
XX CC sample with a detection reagent that differentiates between alternative  
XX CC alleles at at least one SNP position given in the specification, and  
XX CC determining which allele is present at the at least one SNP position.  
XX CC Identifying an individual having or at risk of developing a disorder  
XX CC comprises genotyping at least one SNP given in the specification in a  
XX CC nucleic acid sample from the individual. The disorder is type II diabetes  
XX CC (non-insulin dependent diabetes) or obesity. The detection reagent is  
XX CC useful in identifying an individual having or at risk of developing a  
XX CC disorder, particularly type II diabetes or obesity. This sequence  
XX CC represents human genomic DNA used in the scope of the invention. Note:  
XX CC The sequence data for this patent did not form part of the printed  
XX CC specification but was obtained in electronic format from USPTO at  
XX CC seqdata.uspto.gov/sequence.html.  
XX  
XX Sequence 38684 BP; 9340 A; 9042 C; 9075 G; 10540 T; 0 U; 687 Other;  
SQ  
Query Match 1.4%; Score 45; DB 14; Length 38684;  
Best Local Similarity 100.0%; Pred. No. 2.8e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 2895 GGTGATCACCCTGAGGCCAGAGTTTCAGACCACTGCGCCAA 2939  
Db 23584 GGTGATCACCCTGAGGCCAGAGTTTCAGACCACTGCGCCAA 23540  
RESULT 161  
ID ADN31618 standard; DNA; 39566 BP.  
XX  
XX ADN31618;  
XX  
XX AC  
XX 12-AUG-2004 (first entry)  
XX  
XX DT

XX Human squalene synthase genomic DNA.  
DE Human; ds; antisense; squalene synthase;  
XX farnesyl diphosphate farnesyl transferase 1; cholesterol;  
KW atherosclerosis; coronary heart disease; hypercholesterolaemia.  
XX Homo sapiens.  
OS US2004102405-A1.  
XX  
XX 27-MAY-2004.  
XX  
XX 23-NOV-2002; 2002US-00304125.  
XX  
XX 23-NOV-2002; 2002US-00304125.  
XX  
XX (ISIS-) ISIS PHARM INC.  
XX  
XX Freier SM, Bennett CF, Dean NM, Dobie KM;  
PI WPI; 2004-399735/37.  
XX  
XX New oligonucleotide targeted to a nucleic acid molecule encoding squalene  
PT synthase, useful in diagnosing and treating atherosclerosis.  
XX  
XX Example 15; SEQ ID NO 11; 67bp; English.  
XX  
XX The invention relates to a new compound 8-80 nucleobases in length (an  
CC antisense oligonucleotide) targeted to a nucleic acid molecule encoding  
CC squalene synthase (also known as farnesyl diphosphate farnesyl  
CC transferase 1), where the compound specifically hybridises with the  
CC nucleic acid molecule encoding human squalene synthase appearing as  
CC ADN1611 and inhibits the expression of squalene synthase. Also included  
CC are inhibiting the expression of squalene synthase in cells or tissues,  
CC screening for a modulator of squalene synthase, a diagnostic method for  
CC identifying a disease state, a kit or assay device comprising the  
CC compound and treating an animal having a disease or condition associated  
CC with squalene synthase. The compound and methods are useful in diagnosing  
CC and treating disorders related to cholesterol biosynthesis e.g.  
CC atherosclerosis, coronary heart disease and hypercholesterolaemia. The  
CC present sequence is a squalene synthase genomic DNA sequence, a target  
CC for the antisense oligonucleotide.  
XX  
XX  
XX Sequence 39566 BP; 9928 A; 8277 C; 9254 G; 12107 T; 0 U; 0 Other;  
SQ  
Query Match 1.4%; Score 45; DB 12; Length 39566;  
Best Local Similarity 100.0%; Pred. No. 2.8e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2898 GGATCAGCTGAGGCCAGAGTTGAGACCGCTGGCCAACTAG 2942  
|||||  
DB 25338 GGATCAGCTGAGGCCAGAGTTGAGACCGCTGGCCAACTAG 25382

RESULT 162  
ABX14652  
ID ABX14652 standard; DNA; 40090 BP.  
XX  
XX ABX14652;  
AC  
XX  
XX 05-MAR-2003 (first entry)  
DT  
XX  
XX Human gene encoding squalene synthase.  
DE Human; ds; gene; squalene synthase; cholesterol-related disease;  
XX cardiovascular disease; chromosome 8.  
XX  
XX Homo sapiens.  
OS  
XX  
XX Key Location/Qualifiers  
FH replace(825,A)  
FT  
FT /\*tag= 0

FT /standard\_name= "Single nucleotide polymorphism"  
FT 2058..37739  
FT /\*tag= a  
FT /product= "Squalene synthase"  
FT 2058..2156  
FT /\*tag= b  
FT /number= 1  
FT 2157..7996  
FT /\*tag= c  
FT /number= 1  
FT replace(2632,T)  
FT /\*tag= p  
FT /standard\_name= "Single nucleotide polymorphism"  
FT replace(4430,C)  
FT /\*tag= q  
FT /standard\_name= "Single nucleotide polymorphism"  
FT replace(4791,T)  
FT /\*tag= x  
FT /standard\_name= "Single nucleotide polymorphism"  
FT replace(4886,C)  
FT /\*tag= g  
FT /standard\_name= "Single nucleotide polymorphism"  
FT replace(4887,T)  
FT /\*tag= t  
FT /standard\_name= "Single nucleotide polymorphism"  
FT replace(4889,A)  
FT /\*tag= u  
FT /standard\_name= "Single nucleotide polymorphism"  
FT replace(5110,T)  
FT /\*tag= v  
FT /standard\_name= "Single nucleotide polymorphism"  
FT replace(6911,A)  
FT /\*tag= w  
FT /standard\_name= "Single nucleotide polymorphism"  
FT replace(7212,G)  
FT /\*tag= x  
FT /standard\_name= "Single nucleotide polymorphism"  
FT replace(7355,T)  
FT /\*tag= y  
FT /standard\_name= "Single nucleotide polymorphism"  
FT replace(7398,C)  
FT /\*tag= z  
FT /standard\_name= "Single nucleotide polymorphism"  
FT replace(7653,C)  
FT /\*tag= aa  
FT /standard\_name= "Single nucleotide polymorphism"  
FT 7997..8094  
FT /\*tag= d  
FT /number= 2  
FT replace(8031,G)  
FT /\*tag= ad  
FT /standard\_name= "Single nucleotide polymorphism"  
FT 8095..8869  
FT /\*tag= e  
FT /number= 2  
FT replace(8145,C)  
FT /\*tag= ac  
FT /standard\_name= "Single nucleotide polymorphism"  
FT replace(8310,A)  
FT /\*tag= ab  
FT /standard\_name= "Single nucleotide polymorphism"  
FT replace(8462,G)  
FT /\*tag= ae  
FT /standard\_name= "Single nucleotide polymorphism"  
FT 8870..9053  
FT /\*tag= f  
FT /number= 3  
FT replace(8873,T)  
FT /\*tag= af  
FT /standard\_name= "Single nucleotide polymorphism"  
FT 9054..25147  
FT /\*tag= g  
FT /number= 3

```

FT variation replace(9190,T)
FT /*tag= ag
FT /standard_name= "Single nucleotide polymorphism"
FT replace(9310..9312,GA)
FT /*tag= ah
FT /standard_name= "Single nucleotide polymorphism"
FT replace(9847,T)
FT /*tag= ai
FT /standard_name= "Single nucleotide polymorphism"
FT replace(10460,T)
FT /*tag= aj
FT /standard_name= "Single nucleotide polymorphism"
FT replace(20204,G)
FT /*tag= ak
FT /standard_name= "Single nucleotide polymorphism"
FT replace(20362,A)
FT /*tag= al
FT /standard_name= "Single nucleotide polymorphism"
FT replace(21166,A)
FT /*tag= am
FT /standard_name= "Single nucleotide polymorphism"
FT replace(21477,A)
FT /*tag= an
FT /standard_name= "Single nucleotide polymorphism"
FT replace(22230,T)
FT /*tag= ao
FT /standard_name= "Single nucleotide polymorphism"
FT replace(22941,G)
FT /*tag= ap
FT /standard_name= "Single nucleotide polymorphism"
FT replace(23963,T)
FT /*tag= aq
FT /standard_name= "Single nucleotide polymorphism"
FT 25148..25339
FT /*tag= h
FT /number= 4
FT 25340..29365
FT /*tag= i
FT /number= 4
FT replace(25686,A)
FT /*tag= ar
FT /standard_name= "Single nucleotide polymorphism"
FT replace(26018,G)
FT /*tag= as
FT /standard_name= "Single nucleotide polymorphism"
FT replace(26078,A)
FT /*tag= at
FT /standard_name= "Single nucleotide polymorphism"
FT replace(26625,G)
FT /*tag= au
FT /standard_name= "Single nucleotide polymorphism"
FT replace(27151,C)
FT /*tag= av
FT /standard_name= "Single nucleotide polymorphism"
FT replace(28032,A)
FT /*tag= aw
FT /standard_name= "Single nucleotide polymorphism"
FT replace(28772,A)
FT /*tag= ax
FT /standard_name= "Single nucleotide polymorphism"
FT 29366..29542
FT /*tag= j
FT /number= 5
FT 29543..30639
FT /*tag= k
FT /number= 5
FT replace(29572,T)
FT /*tag= ay
FT /standard_name= "Single nucleotide polymorphism"
FT replace(29761,T)
FT /*tag= az
FT /standard_name= "Single nucleotide polymorphism"
FT 30640..30792
FT exon

```

```

FT /*tag= l
FT /number= 6
FT variation replace(30732,C)
FT /*tag= ba
FT /standard_name= "Single nucleotide polymorphism"
FT 30793..307517
FT /*tag= m
FT /number= 6
FT variation replace(30841,G)
FT /*tag= bb
FT /standard_name= "Single nucleotide polymorphism"
FT replace(31376,A)
FT /*tag= bc
FT /standard_name= "Single nucleotide polymorphism"
FT replace(32032,A)
FT /*tag= bd
FT /standard_name= "Single nucleotide polymorphism"
FT replace(32525,G)
FT /*tag= be
FT /standard_name= "Single nucleotide polymorphism"
FT replace(34179,T)
FT /*tag= bf
FT /standard_name= "Single nucleotide polymorphism"
FT variation replace(34249,T)
FT /*tag= bg
FT /standard_name= "Single nucleotide polymorphism"
FT replace(34451,C)
FT /*tag= bh
FT /standard_name= "Single nucleotide polymorphism"
FT replace(34532,C)
FT /*tag= bi
FT /standard_name= "Single nucleotide polymorphism"
FT variation replace(36541,C)
FT /*tag= bj
FT /standard_name= "Single nucleotide polymorphism"
FT replace(36607,G)
FT /*tag= bk
FT /standard_name= "Single nucleotide polymorphism"
FT

```

Query Match 1.4%; Score 45; DB 8; Length 40090;  
 Best Local Similarity 100.0%; Pred. No. 2.8e-10; Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2898 GGATCAGCTGAGGCCAGAGTTGAGACGACCTGGCCACATAG 2942  
 Db 25713 GGATCAGCTGAGGCCAGAGTTGAGACGACCTGGCCACATAG 25757

```

RESULT 163
ADN96863
ID ADN96863 standard; DNA; 40090 BP.
AC ADN96863;
XX
XX 26-AUG-2004 (first entry)
XX
XX DE Novel human enzyme genomic DNA.
XX disease diagnosis; gene expression associated disorder; gene expression;
XX enzyme peptide; human; gene; ds.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
XX variation replace(825,A)
FT /*tag= a
FT /standard_name= "Single nucleotide polymorphism"
FT 2058..337739
FT /*tag= c
FT /product= "Novel human enzyme"
FT 2058..2156
FT exon
FT /*tag= b
FT /number= 1
FT

```

FT	intron	2157. .7996		FT		/tag= ab
FT		/tag= d		FT	variation	/standard_name= "Single nucleotide polymorphism"
FT	variation	replace(2632,T)		FT		replace(20204,G)
FT		/tag= e		FT	variation	/tag= ac
FT	variation	/standard_name= replace(4430,C)		FT		/standard_name= "Single nucleotide polymorphism"
FT		/tag= f		FT	variation	replace(20362,A)
FT	variation	/standard_name= replace(4791,T)		FT		/tag= ad
FT		replace(4791,T)		FT	variation	/standard_name= "Single nucleotide polymorphism"
FT	variation	/tag= g		FT		replace(21166,A)
FT		/standard_name= replace(4886,C)		FT	variation	/tag= ae
FT	variation	/tag= h		FT		/standard_name= "Single nucleotide polymorphism"
FT		replace(4887,T)		FT	variation	replace(21477,A)
FT	variation	/tag= i		FT		/tag= af
FT		/standard_name= replace(4889,A)		FT	variation	/standard_name= "Single nucleotide polymorphism"
FT	variation	/tag= j		FT		replace(22230,T)
FT		replace(5110,T)		FT	variation	/tag= ag
FT	variation	/tag= k		FT		/standard_name= "Single nucleotide polymorphism"
FT		/standard_name= replace(6511,A)		FT	variation	replace(22941,G)
FT	variation	/tag= l		FT		/tag= ah
FT		/standard_name= replace(7212,G)		FT	variation	/standard_name= "Single nucleotide polymorphism"
FT	variation	/tag= m		FT		replace(23963,T)
FT		/standard_name= replace(7355,T)		FT	variation	/tag= ai
FT	variation	/tag= n		FT		/standard_name= "Single nucleotide polymorphism"
FT		/standard_name= replace(7398,C)		FT	exon	25148. .25339
FT	variation	/tag= o		FT		/tag= aj
FT		/standard_name= replace(7653,C)		FT	intron	/number= 4
FT	variation	/tag= p		FT		25340. .29365
FT		/standard_name= 7997. .8094		FT	variation	/tag= ak
FT	exon	/tag= q		FT		/number= 4
FT		/number= 2		FT	variation	replace(25686,A)
FT	variation	/tag= r		FT		/tag= al
FT		/standard_name= 8095. .8869		FT	variation	/standard_name= "Single nucleotide polymorphism"
FT	intron	/tag= s		FT		replace(26018,G)
FT		/number= 2		FT	variation	/tag= am
FT	variation	/tag= t		FT		/standard_name= "Single nucleotide polymorphism"
FT		/standard_name= replace(8310,A)		FT	variation	replace(26078,A)
FT	variation	/tag= u		FT		/tag= an
FT		/standard_name= replace(8462,G)		FT	variation	/standard_name= "Single nucleotide polymorphism"
FT	variation	/tag= v		FT		replace(26625,G)
FT		/standard_name= 8870. .9053		FT	exon	/tag= ao
FT	exon	/tag= w		FT		/standard_name= "Single nucleotide polymorphism"
FT		/number= 3		FT	variation	replace(27151,C)
FT	variation	/tag= x		FT		/tag= ap
FT		/standard_name= 9054. .25147		FT	variation	/standard_name= "Single nucleotide polymorphism"
FT	intron	/tag= y		FT		replace(28032,A)
FT		/number= 3		FT	variation	/tag= aq
FT	variation	/tag= z		FT		/standard_name= "Single nucleotide polymorphism"
FT		/standard_name= replace(9847,T)		FT	intron	replace(28772,A)
FT	variation	/tag= aa		FT		/tag= ar
FT		/standard_name= replace(10460,C)		FT	exon	/standard_name= "Single nucleotide polymorphism"
FT	variation			FT		29366. .29342
				FT	intron	/tag= as
				FT		/number= 5
				FT	variation	29543. .30639
				FT		/tag= at
				FT	variation	/number= 5
				FT		replace(29572,T)
				FT	exon	/tag= au
				FT		/standard_name= "Single nucleotide polymorphism"
				FT	variation	replace(29761,T)
				FT		/tag= av
				FT	exon	/standard_name= "Single nucleotide polymorphism"
				FT		30640. .30792
				FT	variation	/tag= aw
				FT		/number= 6
				FT	intron	replace(30732,C)
				FT		/tag= ax
				FT	variation	30793. .37517
				FT		/tag= ay
				FT	intron	/number= 6
				FT		replace(30841,G)
				FT	variation	/tag= az

```

FT /standard_name= "Single nucleotide polymorphism"
FT replace(31376,A)
FT /*tag= ba
FT /standard_name= "Single nucleotide polymorphism"
FT replace(32032,A)
FT /*tag= db
FT /standard_name= "Single nucleotide polymorphism"
FT replace(32525,G)
FT /*tag= bc
FT /standard_name= "Single nucleotide polymorphism"
FT replace(34179,T)
FT /*tag= bd
FT /standard_name= "Single nucleotide polymorphism"
FT replace(34249,T)
FT /*tag= be
FT /standard_name= "Single nucleotide polymorphism"
FT replace(34451,C)
FT /*tag= bf
FT /standard_name= "Single nucleotide polymorphism"
FT replace(34532,C)
FT /*tag= bg
FT /standard_name= "Single nucleotide polymorphism"
FT replace(35541,C)
FT /*tag= bh
FT /standard_name= "Single nucleotide polymorphism"
FT replace(36607,G)
FT /*tag= bi
FT /standard_name= "Single nucleotide polymorphism"
FT replace(36681,G)
FT /*tag= bj
FT /standard_name= "Single nucleotide polymorphism"

```

```

Query Match 1.4%; Score 45; DB 12; Length 40090;
Best Local Similarity 100.0%; Pred. No. 2.8e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy 2898 GGATCAGCTGAGCGCAGAGTTTCAGACCACTGCGCCACATG 2942
Db 25713 GGATCAGCTGAGCGCAGAGTTTCAGACCACTGCGCCACATG 25757

```

```

RESULT 164
AD213149/C
ID AD213149 standard; DNA; 57105 BP.
XX
XX AD213149;
XX AC
XX 16-JUN-2005 (first entry)
XX DT
XX Human cancer-associated genomic DNA #56.
XX DE
XX Diagnosis; DNA microarray; microarray; cancer; neoplasm;
XX cytosolic; gene; de.
XX KW
XX Homo sapiens.
XX OS
XX WO2005031001-A2.
XX PN
XX 07-APR-2005.
XX PD
XX 23-SEP-2004; 2004WO-US031617.
XX PP
XX 23-SEP-2003; 2003US-00669920.
XX PR
XX (CHIR ) CHIRON CORP.
XX PA
XX Morris DW, Malandro MS;
XX PI
XX WPI; 2005-273395/28.
XX DR
XX Nucleic acid array useful for detecting cancer associated nucleic acid,
XX comprises two or more nucleic acid probes.
XX PT
XX

```

```

PS Disclosure; SEQ ID NO 669; 198bp; English.
XX
XX

```

The invention relates to a nucleic acid array for detecting a cancer associated (CA) nucleic acid, comprising two or more nucleic acid probes. The invention also relates to a peptide array comprising two or more isolated polypeptides encoded by a CA nucleic acid sequence, a compound that binds to a polypeptide, an isolated antibody or its fragment which binds to a polypeptide, which is prepared by immunizing a host animal with a composition comprising the polypeptide or its antigen binding fragment and collecting cells from the host expressing antibodies against the antigen or its antigen binding fragment, a composition comprising the antibody and a carrier, a method of screening for anticancer activity, a method of detecting a CA nucleic acid, a method of diagnosing cancer, a method of treating cancer and a method of inhibiting expression of a CA nucleic acid in a cell. The CA nucleic acids are useful for detecting CA nucleic acids. The antibody is useful for detecting the presence or absence of cancer cells in an individual which involves contacting cells from the individual with the antibody and detecting a complex of a CA protein from the cancer cells and the antibody, where the detection of the complex correlates with the presence of cancer cells in the individual. The composition is useful for inhibiting growth of cancer cells in an individual or for delivering a therapeutic agent to cancer cells in an individual. The invention is also useful for diagnosing cancer, for treating cancer and for inhibiting expression of a CA gene in a cell. This sequence represents human cancer-associated genomic DNA of the invention.

```

SQ Sequence 57105 BP; 15389 A; 12942 C; 12984 G; 15770 T; 0 U; 20 Other;

```

```

Query Match 1.4%; Score 45; DB 14; Length 57105;
Best Local Similarity 100.0%; Pred. No. 2.8e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy 3078 GTGCCACTGACATCCAGCTCGGCAACAGCAAGACTGTCTC 3122
Db 39001 GTGCCACTGACATCCAGCTCGGCAACAGCAAGACTGTCTC 38957

```

```

RESULT 165
ABK83563
ID ABK83563 standard; cDNA; 57248 BP.
XX
XX ABK83563;
XX AC
XX 14-AUG-2002 (first entry)
XX DT
XX Human cDNA differentially expressed in granulocytic cells #134.
XX DE
XX Human; se; granulocytic cell; DNA chip; bacterial infection;
XX viral infection; parasitic infection; protozoal infection;
XX fungal infection; sterile inflammatory disease; psoriasis;
XX rheumatoid arthritis; glomerulonephritis; asthma; thrombosis;
XX cardiac reperfusion injury; renal reperfusion injury; ARDS;
XX adult respiratory distress syndrome; inflammatory bowel disease;
XX Crohn's disease; ulcerative colitis; periodontal disease;
XX granulocyte activation; chronic inflammation; allergy.
XX KW
XX Homo sapiens.
XX OS
XX WO200228999-A2.
XX PN
XX 11-APR-2002.
XX PD
XX 03-OCT-2001; 2001WO-US030821.
XX PP
XX 03-OCT-2000; 2000US-0237189P.
XX PR
XX (GENE-) GENE LOGIC INC.
XX PA
XX Beazer-Barclay Y, Weltsman SM, Yamaga S, Vockley J;
XX WPI; 2002-435328/46.
XX DR
XX
XX

```

PT Detecting granulocyte activation by detecting differential expression of  
PT genes associated with granulocyte activation, which serves as diagnostic  
PT markers that is useful for monitoring disease states and drug toxicity.

PS Claim 1; SEQ ID NO 134; 114pp; English.

CC The invention relates to detecting (M1) granulocyte (GC) activation  
CC (GCA), by detecting the level of expression of gene(s) (Gs) identified by  
CC DNA chip analysis as given in the specification, and comparing the  
CC expression level to an expression level in an unactivated GC, where  
CC differential expression of Gs is indicative of GCA. Also included are  
CC modulating (M2) GA by contacting GC with an agent that alters the  
CC expression of at least one gene in Gs; (2) screening (M3) for an agent  
CC capable of modulating GCA or an inflammation (especially chronic) in a  
CC tissue, an allergic response in a subject, exposure of a subject to a  
CC pathogen or sterile inflammatory disease using the gene expression  
CC profile; (3) detecting (M4) an inflammation (especially chronic) in a  
CC tissue, an allergic response in a subject, exposure of a subject to a  
CC pathogen or sterile inflammatory disease, by detecting the level of  
CC expression in a sample of the tissue of gene(s) from Gs, where the level  
CC of expression of the gene is indicative of inflammation; (4) treating  
CC (M5) an inflammation (especially chronic) or in a tissue, an allergic  
CC response in a subject, exposure of a subject to a pathogen or sterile  
CC inflammatory disease, by contacting a tissue having inflammation with an  
CC agent that modulates the expression of gene(s) from Gs in the tissue. M1  
CC is useful for detecting GCA; M2 is useful for modulating GA; M3 is useful  
CC for screening an agent capable of modulating GCA preferably in an  
CC inflammation in a tissue; M4 is useful for detecting an inflammation  
CC (especially chronic) in a tissue, an allergic response in a subject,  
CC exposure of a subject to a pathogen or sterile inflammatory disease (e.g.  
CC psoriasis, rheumatoid arthritis, glomerulonephritis, asthma, thrombosis,  
CC cardiac reperfusion injury, renal reperfusion injury, ARDS, adult  
CC respiratory distress syndrome, inflammatory bowel disease, Crohn's  
CC disease, ulcerative colitis, periodontal disease; also bacterial  
CC infection, viral infection, parasitic infection, protozoal infection,  
CC fungal infection and M5 is useful for treating one of the above  
CC conditions. The present sequence represents a gene differentially  
CC expressed in granulocytes. Note: The sequence data for this patent did  
CC not form part of the printed specification, but was obtained in  
CC electronic format directly from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences

SO Sequence 57248 BP; 15003 A; 13601 C; 13307 G; 15337 T; 0 U; 0 Other;

Query Match 1.4%; Score 45; DB 6; Length 57248;

Best Local Similarity 100.0%; Pred. No. 2.8e-10;

Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2888 TGAGGCAAGTGGATCAGCTGAGGCGAGGATTTCAGAGCAGGCTG 2932

DB 31301 TGAGGCAAGTGGATCAGCTGAGGCGAGGATTTCAGAGCAGGCTG 31345

RESULT 166  
ABD32902

ID ABD32902 standard; DNA; 65277 BP.

AC ABD32902;

DT 18-NOV-2004 (first entry)

DE Human cancer-associated genomic DNA HD18-038.

KM Human; ds; cancer-associated protein; gene; cytosolic; cancer;  
KM Leukemia; Lymphoma; CAP.

OS Homo sapiens.

PN MO2004074320-A2.

PD 02-SEP-2004.

PF 17-FEB-2004; 2004WO-US004730.

XX 14-FEB-2003; 2003US-00367094.

PR 14-MAR-2003; 2003US-00388838.

PR 15-APR-2003; 2003US-00417375.

PR 13-JUN-2003; 2003US-00461862.

PR 15-SEP-2003; 2003US-00663431.

PR 15-DEC-2003; 2003US-00737318.

XX (SAGR-) SAGRES DISCOVERY INC.

PI Morris DW, Morris DW, Malandro MS;

DR WPI; 2004-652914/63.

XX New isolated cancer-associated polynucleotides and polypeptides useful

PT for diagnosing, preventing or treating cancers, especially lymphoma and

PT leukemia, or in screening for agents that modulate cancer.

PS claim 16; seqid 602; 310pp; English.

CC The invention relates to an isolated nucleic acid comprising at least 10  
CC contiguous nucleotides of any of the 23 polynucleotide sequences given  
CC in the specification, or its complement. The nucleic acids encode cancer-  
CC associated proteins. Also included are an expression vector comprising  
CC the isolated nucleic acid cited above, a host cell comprising the above  
CC recombinant nucleic acid or expression vector, a microarray for detecting  
CC a cancer-associated (CA) nucleic acid comprising at least one probe  
CC comprising at least 10 contiguous nucleotides of any of the above-  
CC mentioned nucleotide sequences, an isolated polypeptide (encoded within  
CC an open reading frame of a CA sequence selected from any of the 95  
CC polynucleotide sequences as mentioned in the specification, or its  
CC complement), an isolated antibody, (or its antigen binding fragment) that  
CC binds to the above polypeptide, a hydridoma that produces the above  
CC monoclonal antibody, a pharmaceutical composition comprising the above  
CC antibody and a pharmaceutical excipient, a kit for detecting cancer  
CC cells (comprising the antibody cited above, methods for diagnosing cancer  
CC or for detecting the presence or absence of cancer cells in an  
CC individual), a method for inhibiting growth of cancer cells in an  
CC individual, a method for delivering a therapeutic agent to cancer cells  
CC in an individual, an electronic library comprising the above  
CC polynucleotide or polypeptide (or their fragments), methods of screening  
CC for anticancer activity or for a bioactive agent capable of modulating  
CC the activity of a CA protein (CAP), methods for detecting cancer  
CC associated with expression of a polypeptide in a test cell sample, a  
CC method for treating cancers and a method for inhibiting the expression of  
CC CA gene in a cell. The composition and methods are useful for detecting,  
CC diagnosing, preventing and treating cancers, especially lymphoma and  
CC leukemia. These may also be used in screening for agents that modulate  
CC cancer. The present sequence is a human CAP genomic sequence. Note: The  
CC sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences

SO Sequence 65277 BP; 19651 A; 11706 C; 12664 G; 21256 T; 0 U; 0 Other;

Query Match 1.4%; Score 45; DB 13; Length 65277;

Best Local Similarity 100.0%; Pred. No. 2.8e-10;

Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2899 GATCACTGAGGCGAGGATTTCAGAGCAGGCTGCGCAATAGC 2943

DB 27320 GATCACTGAGGCGAGGATTTCAGAGCAGGCTGCGCAATAGC 27364

RESULT 167

ACN43986/C

ID ACN43986 standard; DNA; 73995 BP.

AC ACN43986;

DT 18-NOV-2004 (first entry)

DE Human genomic sequence hCG40211.

XX Cytostatic; carcinoma; lymphoma; cancer; human; gene; ss.  
KM Homo sapiens.  
OS  
XX MO2003073826-A2.  
PN  
XX 12-SEP-2003.  
PD  
XX 28-FEB-2003; 2003MO-US006235.  
PF  
XX 01-MAR-2002; 2002US-00087192.  
PR  
XX (SAGR-) SAGRES DISCOVERY.  
PA  
XX Morris DW;  
PI  
XX WPI; 2003-328604/31.  
DR  
XX Recombinant nucleic acid useful for diagnosis and treatment of carcinoma  
PT comprises a nucleotide sequence.  
PS  
XX Claim 1; SEQ ID NO 208; Opp; English.  
CC The present invention relates to novel DNA and protein sequences which  
CC are associated with carcinomas. The sequences are useful for: (i) for  
CC screening drug candidates; (ii) for screening of bioactive agent capable  
CC of binding to Carcinoma Associated Protein (CAP); (iii) for screening of  
CC a bioactive agent capable of modulating the activity of CAP; (iv) for  
CC evaluating the effect of a candidate carcinoma drug; (v) for diagnosing  
CC carcinoma; (vi) for inhibiting the activity of CAP; (vii) for treating  
CC carcinoma; (viii) for neutralizing the effect of CAP; (ix) as a biochip;  
CC (x) for diagnosing carcinoma or a propensity to carcinoma; and (xi) for  
CC determining Carcinoma Associated (CA) gene copy number. In addition, the  
CC CA genes are useful as DNA vaccines and the CAP are useful as markers of  
CC carcinoma including lymphoma. The present sequence is one such CA coding  
CC sequence. Note: This patent is an equivalent to basic patent  
CC US2002182586A1, for which no sequence data was published  
XX  
SQ Sequence 73995 BP; 17594 A; 18402 C; 19247 G; 18752 T; 0 U; 0 Other;  
Query Match 1.4%; Score 45; DB 11; Length 73995;  
Best Local Similarity 100.0%; Pred. No. 2.8e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 3078 GTGCCACTGCACCTCCAGCTGGGCAACAGCAAGACTCTGTCTC 3122  
DB 27485 GTGCCACTGCACCTCCAGCTGGGCAACAGCAAGACTCTGTCTC 27441  
RESULT 168  
ACA64942  
ID ACA64942 standard; DNA; 78539 BP.  
XX  
AC ACA64942;  
XX  
DT 27-JUN-2003 (first entry)  
XX  
DS Human FRAP1 DNA corresponding to AL049659.  
XX  
XX Human; chronic inflammatory joint disease; infection; tumour;  
KM antiinflammatory; cytostatic; antiarthritic; antirheumatic;  
KW immunosuppressive; gene therapy; etiological pathogenicity; ds.  
XX  
OS Homo sapiens.  
XX  
PN DE10127572-A1.  
XX  
PD 05-DEC-2002.  
XX  
PF 30-MAY-2001; 2001DE-01027572.  
XX  
PR 30-MAY-2001; 2001DE-01027572.

XX (PATH-) PATHOARRAY GMBH.  
PA  
XX Haeupl T, Ungelthum U, Blaess S;  
PI  
XX WPI; 2003-240797/24.  
DR  
XX  
XX Reagents for diagnosis, study and therapy of chronic inflammatory joint  
PT and other diseases, comprises any of many specified genes or derived  
PT proteins.  
PS  
XX Claim 1; Page; 12pp; German.  
XX  
XX This invention describes a novel reagent for diagnosis, molecular  
CC definition and therapy of chronic inflammatory joint diseases, and other  
CC inflammatory disorder, infective or tumour diseases in humans. The  
CC products of the invention have antiinflammatory, cyostatic,  
CC antiarthritic, antirheumatic and immunosuppressive activity, and can be  
CC used for gene therapy. The reagent of the invention and any proteins and  
CC antibodies derived from it, are used (i) for analysing tissue and blood  
CC samples for medical diagnosis; (ii) for diagnosis and characterisation of  
CC chronic joint diseases, on the basis of molecular characterisation, and  
CC determining the etiological pathogenicity principle of as yet  
CC uncharacterised inflammatory diseases, also monitoring progression and/or  
CC treatment of disease, and optimisation of therapy and (iii) for  
CC developing treatments for inflammatory diseases, particularly of joints,  
CC infections and tumours. ACA64801-ACA64965 represent human polynucleotides  
CC used in the method of the invention  
XX  
SQ Sequence 78539 BP; 23554 A; 17605 C; 17140 G; 20240 T; 0 U; 0 Other;  
Query Match 1.4%; Score 45; DB 8; Length 78539;  
Best Local Similarity 100.0%; Pred. No. 2.8e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 3078 GTGCCACTGCACCTCCAGCTGGGCAACAGCAAGACTCTGTCTC 3122  
DB 56640 GTGCCACTGCACCTCCAGCTGGGCAACAGCAAGACTCTGTCTC 56684  
RESULT 169  
ADO79404/c  
ID ADO79404 standard; DNA; 89900 BP.  
XX  
AC ADO79404;  
XX  
DT 26-AUG-2004 (first entry)  
XX  
DE DPF3 region, SEQ ID 3.  
XX  
XX Cytostatic; Gene therapy; breast cancer; human; DLG1; KIAA0783; DPF3;  
KM CENPC1; gene; ds; SNP; single nucleotide polymorphism;  
KW D4, zinc and double PND fingers, family 3; CERD4; cer-d4; PLJ14079;  
KW 2810403B03R1k; Rho family guanine-nucleotide exchange factor;  
XX chromosome 14q24.3-q31.1.  
XX  
OS Homo sapiens.  
XX  
FH Key  
XX Location/Qualifiers  
XX 160  
FT variation  
FT /\*tag= a  
FT /standard name= "Single nucleotide polymorphism"  
FT /note= "This SNP is described as a A/C SNP"  
FT 6053  
FT variation  
FT /\*tag= b  
FT /standard name= "Single nucleotide polymorphism"  
FT /note= "This SNP is described as a T/G SNP"  
FT 9719  
FT variation  
FT /\*tag= c  
FT /standard name= "Single nucleotide polymorphism"  
FT /note= "This SNP is described as a A/G SNP"  
FT 10481  
FT variation  
FT /\*tag= d



```
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a T/C SNP"
FT 10676
FT /tag= e
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a A/T SNP"
FT 17179
FT /tag= f
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a C/G SNP"
FT 18561
FT /tag= g
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a A/T SNP"
FT 18658
FT /tag= h
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a G/C SNP"
FT 18694
FT /tag= i
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a A/G SNP"
FT 18858
FT /tag= j
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a T/C SNP"
FT 24382
FT /tag= k
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a G/A SNP"
FT 24683
FT /tag= l
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a G/A SNP"
FT 24767
FT /tag= m
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a T/C SNP"
FT 27402
FT /tag= n
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a A/G SNP"
FT 28150
FT /tag= o
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a T/G SNP"
FT 28494
FT /tag= p
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a T/C SNP"
FT 32003
FT /tag= q
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a A/C SNP"
FT 35588
FT /tag= r
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a T/C SNP"
FT 35619
FT /tag= s
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a T/C SNP"
FT 35856
FT /tag= t
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a G/A SNP"
FT 36254
FT /tag= u
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a G/C SNP"
FT 37314
FT /tag= v
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a G/A SNP"
FT 40033
FT /tag= v
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a T/G SNP"
FT 40095
FT /tag= x
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a G/C SNP"
FT 42593
FT /tag= y
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a A/C SNP"
FT 42799
FT /tag= z
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a A/G SNP"
FT 43090
FT /tag= aa
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a G/A SNP"
FT 46683
FT /tag= ab
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a A/G SNP"
FT 49774
FT /tag= ac
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a A/G SNP"
FT 51796
FT /tag= ad
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a T/C SNP"
FT 52079
FT /tag= ae
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a A/T SNP"
FT 53857
FT /tag= af
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a T/C SNP"
FT 53971
FT /tag= ag
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a A/C SNP"
FT 55899
FT /tag= ah
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a T/C SNP"
FT 60682
FT /tag= ai
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a G/A SNP"
FT 61291
FT /tag= aj
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a T/C SNP"
FT 72720
FT /tag= ak
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a G/A SNP"
FT 72752
FT /tag= al
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a A/C SNP"
FT 85507
FT /tag= am
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a A/G SNP"
FT 89751
FT /tag= an
FT /standard name= "Single nucleotide polymorphism"
FT /note= "This SNP is described as a T/A SNP"
```

XX WO2004047514-A2.  
PN 10-JUN-2004.  
XX 25-NOV-2003; 2003WO-US037943.  
XX 25-NOV-2002; 2002US-0429136P.  
XX 24-JUL-2003; 2003US-0490224P.  
XX (SEQ-) SEQUENOM INC.  
XX Roth RB, Nelson MR, Braun A, Kammerer SM, Reneland R;  
XX WPI; 2004-441037/41.  
XX  
XX Identifying a subject at risk of breast cancer by detecting the presence  
XX of polymorphic variations in the Dlg1, KIA0783, DPF3 or CENPC1 regions  
XX PT which are associated with breast cancer in a nucleic acid sample from a  
XX subject.  
XX  
XX Claim 24; Fig 3; 227pp; English.

Query Match 1.4%; Score 45; DB 12; Length 89900;  
Best Local Similarity 100.0%; Pred. No. 2.7e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3078 GTGCCACTGCACTCCAGCTGGGCAACAGCAAGACTCTGTCTC 3122  
DB 59096 GTGCCACTGCACTCCAGCTGGGCAACAGCAAGACTCTGTCTC 59052

RESULT 170  
ID ABD33524/c  
XX ABD33524 standard; DNA; 107543 BP.  
XX  
XX ABD33524;  
XX  
XX 18-NOV-2004 (first entry)  
XX Human cancer-associated (CA) gene HD07-103.  
XX  
XX Human cancer-associated protein; CAP; cancer-associated gene; CA; gene;  
XX KM de; cancer; cytostatic.  
XX  
XX Homo sapiens.  
XX  
XX WO2004058146-A2.  
XX  
XX 15-JUL-2004.  
XX  
XX 15-DEC-2003; 2003WO-US040081.  
XX  
XX 17-DEC-2002; 2002US-00322281.  
XX  
XX (SAGR-) SAGRES DISCOVERY INC.  
XX  
XX Morris DW, Malandro MS;  
XX  
XX WPI; 2004-499109/47.  
XX  
XX Novel human cancer associated protein encoded within open reading frame  
XX PT of cancer associated gene, useful as targets for diagnosing cancer.  
XX  
XX Claim 16; SEQ ID NO 706; 182pp; English.  
XX  
XX The invention relates to cancer-associated proteins (CAP) and the cancer-  
XX associated (CA) nucleic acids encoding them. The invention also relates  
XX to a method for treating cancers involving administering to a patient an  
XX inhibitor of CAP, and a method of screening for anticancer activity in a  
XX potential drug involving providing a cell that expresses a CA gene,  
XX contacting a tissue sample derived from a cancer cell with an anticancer  
XX

CC drug candidate and monitoring the effect of the anticancer drug candidate  
CC on expression of the CA gene. The CAP proteins are useful for detecting  
CC cancer associated with expression of a CAP protein in a test cell sample  
CC and for screening for a bioactive agent capable of modulating the  
CC activity of a CAP protein. The CA nucleic acids are useful for diagnosing  
CC cancer, involving determining the expression of a CA nucleic acid in a  
CC tissue. This sequence represents a human CA gene of the invention. Note:  
CC The sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences

XX Sequence 107543 BP; 30009 A; 20779 C; 22714 G; 34041 T; 0 U; 0 Other;  
SQ  
Query Match 1.4%; Score 45; DB 13; Length 107543;  
Best Local Similarity 100.0%; Pred. No. 2.7e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3078 GTGCCACTGCACTCCAGCTGGGCAACAGCAAGACTCTGTCTC 3122  
DB 39889 GTGCCACTGCACTCCAGCTGGGCAACAGCAAGACTCTGTCTC 39845

RESULT 171  
ID ABD33242/c  
XX ABD33242 standard; DNA; 107745 BP.  
XX  
XX ABD33242;  
XX

XX 18-NOV-2004 (first entry)  
XX  
XX Human cancer-associated (CA) gene HD07-040.  
XX  
XX Human cancer-associated protein; CAP; cancer-associated gene; CA; gene;  
XX KM de; cancer; cytostatic.  
XX  
XX Homo sapiens.  
XX  
XX WO2004058146-A2.  
XX  
XX 15-JUL-2004.  
XX  
XX 15-DEC-2003; 2003WO-US040081.  
XX  
XX 17-DEC-2002; 2002US-00322281.  
XX  
XX (SAGR-) SAGRES DISCOVERY INC.  
XX  
XX Morris DW, Malandro MS;  
XX  
XX WPI; 2004-499109/47.  
XX  
XX Novel human cancer associated protein encoded within open reading frame  
XX PT of cancer associated gene, useful as targets for diagnosing cancer.  
XX  
XX Claim 16; SEQ ID NO 268; 182pp; English.  
XX

XX The invention relates to cancer-associated proteins (CAP) and the cancer-  
XX associated (CA) nucleic acids encoding them. The invention also relates  
XX to a method for treating cancers involving administering to a patient an  
XX inhibitor of CAP, and a method of screening for anticancer activity in a  
XX potential drug involving providing a cell that expresses a CA gene,  
XX contacting a tissue sample derived from a cancer cell with an anticancer  
XX drug candidate and monitoring the effect of the anticancer drug candidate  
XX on expression of the CA gene. The CAP proteins are useful for detecting  
XX cancer associated with expression of a CAP protein in a test cell sample  
XX and for screening for a bioactive agent capable of modulating the  
XX activity of a CAP protein. The CA nucleic acids are useful for diagnosing  
XX cancer, involving determining the expression of a CA nucleic acid in a  
XX tissue. This sequence represents a human CA gene of the invention. Note:  
XX The sequence data for this patent did not form part of the printed  
XX specification, but was obtained in electronic format directly from WIPO  
XX at ftp.wipo.int/pub/published\_pct\_sequences

SQ Sequence 107745 BP; 27670 A; 22736 C; 24082 G; 32763 T; 0 U; 494 Other;

Query Match 1.4%; Score 45; DB 13; Length 107745;  
Best Local Similarity 100.0%; Pred. No. 2.7e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3078 GTGCCACTGCACCTCCAGCTGGGCAACAGACGACTCTGTCTC 3122  
Db 21081 GTGCCACTGCACCTCCAGCTGGGCAACAGACGACTCTGTCTC 21037

RESULT 172

ABL57909\_2  
Continuation (3 of 4) of ABL57909 from base 200001 (Human transporter protein gene.)

WP Sequence split into 4 fragments LOCUS ABL57909 Accession ABL57909  
WP Fragment Name Begin End  
WP ABL57909\_0 1 110000  
WP ABL57909\_1 100001 210000  
WP ABL57909\_2 200001 310000  
WP ABL57909\_3 300001 368004

Query Match 1.4%; Score 45; DB 6; Length 110000;  
Best Local Similarity 100.0%; Pred. No. 2.7e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3071 CAAGATTGTGCACCTGCACCTCCAGCTGGGCAACAGACGACT 3115  
Db 52355 CAAGATTGTGCACCTGCACCTCCAGCTGGGCAACAGACGACT 52399

RESULT 173

ABX08336\_03/c  
Continuation (4 of 17) of ABX08336 from base 300001 (Human phosphodiesterase 4D (PDE4D))

WP Sequence split into 17 fragments LOCUS ABX08336 Accession ABX08336  
WP Fragment Name Begin End  
WP ABX08336\_00 1 110000  
WP ABX08336\_01 100001 210000  
WP ABX08336\_02 200001 310000  
WP ABX08336\_03 300001 410000  
WP ABX08336\_04 400001 510000  
WP ABX08336\_05 500001 610000  
WP ABX08336\_06 600001 710000  
WP ABX08336\_07 700001 810000  
WP ABX08336\_08 800001 910000  
WP ABX08336\_09 900001 1010000  
WP ABX08336\_10 1000001 1110000  
WP ABX08336\_11 1100001 1210000  
WP ABX08336\_12 1200001 1310000  
WP ABX08336\_13 1300001 1410000  
WP ABX08336\_14 1400001 1510000  
WP ABX08336\_15 1500001 1610000  
WP ABX08336\_16 1600001 1691080

Query Match 1.4%; Score 45; DB 6; Length 110000;  
Best Local Similarity 100.0%; Pred. No. 2.7e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3078 GTGCCACTGCACCTCCAGCTGGGCAACAGACGACTCTGTCTC 3122  
Db 61071 GTGCCACTGCACCTCCAGCTGGGCAACAGACGACTCTGTCTC 61027

RESULT 174

AAD53224\_2/c  
Continuation (3 of 6) of AAD53224 from base 200001 (Human chromosome 3 q-arm breakpoint)

WP Sequence split into 6 fragments LOCUS AAD53224 Accession AAD53224  
WP Fragment Name Begin End  
WP AAD53224\_0 1 110000  
WP AAD53224\_1 100001 210000  
WP AAD53224\_2 200001 310000  
WP AAD53224\_3 300001 410000  
WP AAD53224\_4 400001 510000  
WP AAD53224\_5 500001 567571

Query Match 1.4%; Score 45; DB 8; Length 110000;  
Best Local Similarity 100.0%; Pred. No. 2.7e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3078 GTGCCACTGCACCTCCAGCTGGGCAACAGACGACTCTGTCTC 3122  
Db 99432 GTGCCACTGCACCTCCAGCTGGGCAACAGACGACTCTGTCTC 99388

RESULT 175

ADJ25985\_03/c  
Continuation (4 of 17) of ADJ25985 from base 300001 (Human phosphodiesterase 4D (PDB4D))

WP Sequence split into 17 fragments LOCUS ADJ25985 Accession ADJ25985  
WP Fragment Name Begin End  
WP ADJ25985\_00 1 110000  
WP ADJ25985\_01 100001 210000  
WP ADJ25985\_02 200001 310000  
WP ADJ25985\_03 300001 410000  
WP ADJ25985\_04 400001 510000  
WP ADJ25985\_05 500001 610000  
WP ADJ25985\_06 600001 710000  
WP ADJ25985\_07 700001 810000  
WP ADJ25985\_08 800001 910000  
WP ADJ25985\_09 900001 1010000  
WP ADJ25985\_10 1000001 1110000  
WP ADJ25985\_11 1100001 1210000  
WP ADJ25985\_12 1200001 1310000  
WP ADJ25985\_13 1300001 1410000  
WP ADJ25985\_14 1400001 1510000  
WP ADJ25985\_15 1500001 1610000  
WP ADJ25985\_16 1600001 1691139

Query Match 1.4%; Score 45; DB 12; Length 110000;  
Best Local Similarity 100.0%; Pred. No. 2.7e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3078 GTGCCACTGCACCTCCAGCTGGGCAACAGACGACTCTGTCTC 3122  
Db 61070 GTGCCACTGCACCTCCAGCTGGGCAACAGACGACTCTGTCTC 61026

RESULT 176

ADN97989\_03/c  
Continuation (4 of 17) of ADN97989 from base 300001 (Human phosphodiesterase 4D genomic)

WP Sequence split into 17 fragments LOCUS ADN97989 Accession ADN97989  
WP Fragment Name Begin End  
WP ADN97989\_00 1 110000  
WP ADN97989\_01 100001 210000  
WP ADN97989\_02 200001 310000  
WP ADN97989\_03 300001 410000  
WP ADN97989\_04 400001 510000  
WP ADN97989\_05 500001 610000  
WP ADN97989\_06 600001 710000  
WP ADN97989\_07 700001 810000  
WP ADN97989\_08 800001 910000  
WP ADN97989\_09 900001 1010000  
WP ADN97989\_10 1000001 1110000  
WP ADN97989\_11 1100001 1210000  
WP ADN97989\_12 1200001 1310000  
WP ADN97989\_13 1300001 1410000  
WP ADN97989\_14 1400001 1510000  
WP ADN97989\_15 1500001 1610000  
WP ADN97989\_16 1600001 1691138

Query Match 1.4%; Score 45; DB 12; Length 110000;  
Best Local Similarity 100.0%; Pred. No. 2.7e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3078 GTGCCACTGCACCTCCAGCTGGGCAACAGACGACTCTGTCTC 3122  
Db 61071 GTGCCACTGCACCTCCAGCTGGGCAACAGACGACTCTGTCTC 61027

RESULT 177  
AD050281\_03/c  
Continuation (4 of 17) of AD050281 from base 300001 (Human phosphodiesterase 4D (PDE4D))  
WP Sequence split into 17 fragments LOCUS AD050281 Accession AD050281  
WP Fragment Name Begin End  
WP AD050281\_00 1 110000  
WP AD050281\_01 100001 210000  
WP AD050281\_02 200001 310000  
WP AD050281\_03 300001 410000  
WP AD050281\_04 400001 510000  
WP AD050281\_05 500001 610000  
WP AD050281\_06 600001 710000  
WP AD050281\_07 700001 810000  
WP AD050281\_08 800001 910000  
WP AD050281\_09 900001 1010000  
WP AD050281\_10 1000001 1110000  
WP AD050281\_11 1100001 1210000  
WP AD050281\_12 1200001 1310000  
WP AD050281\_13 1300001 1410000  
WP AD050281\_14 1400001 1510000  
WP AD050281\_15 1500001 1610000  
WP AD050281\_16 1600001 1691134

Query Match 1.4%; Score 45; DB 12; Length 110000;  
Best Local Similarity 100.0%; Pred. No. 2.7e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3078 GTGGCACTGCACCTCGGCAACAGCAAGCAAGCTCTGTCTC 3122  
DB 61070 GTGGCACTGCACCTCGGCAACAGCAAGCAAGCTCTGTCTC 61026

RESULT 178  
AEB85185\_03/c  
Continuation (4 of 17) of AEB85185 from base 300001 (Human phosphodiesterase 4D gene SEQ  
WP Sequence split into 17 fragments LOCUS AEB85185 Accession Aeb85185  
WP Fragment Name Begin End  
WP AEB85185\_00 1 110000  
WP AEB85185\_01 100001 210000  
WP AEB85185\_02 200001 310000  
WP AEB85185\_03 300001 410000  
WP AEB85185\_04 400001 510000  
WP AEB85185\_05 500001 610000  
WP AEB85185\_06 600001 710000  
WP AEB85185\_07 700001 810000  
WP AEB85185\_08 800001 910000  
WP AEB85185\_09 900001 1010000  
WP AEB85185\_10 1000001 1110000  
WP AEB85185\_11 1100001 1210000  
WP AEB85185\_12 1200001 1310000  
WP AEB85185\_13 1300001 1410000  
WP AEB85185\_14 1400001 1510000  
WP AEB85185\_15 1500001 1610000  
WP AEB85185\_16 1600001 1691140

Query Match 1.4%; Score 45; DB 14; Length 110000;  
Best Local Similarity 100.0%; Pred. No. 2.7e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3078 GTGGCACTGCACCTCGGCAACAGCAAGCAAGCTCTGTCTC 3122  
DB 61071 GTGGCACTGCACCTCGGCAACAGCAAGCAAGCTCTGTCTC 61027

RESULT 179  
ADQ17592  
ID ADQ17592 standard; DNA; 116561 BP.  
XX  
XX ADQ17592;  
XX  
XX 26-AUG-2004 (first entry)  
XX

DE Human soft tissue sarcoma-upregulated DNA - SEQ ID 409.  
XX soft tissue sarcoma; cytoskeletal; gene therapy; vaccine; screening; human;  
KW ds.  
XX Homo sapiens.  
OS  
XX WO2004048938-A2.  
XX  
XX 10-JUN-2004.  
XX  
XX 26-NOV-2003; 2003WO-US038193.  
XX  
XX 26-NOV-2002; 2002US-0429739P.  
XX  
XX (PROT-) PROTEIN DESIGN LABS INC.  
XX  
XX Aziz N, Ginsburg WM, Zlotnick A;  
XX WPI; 2004-441208/41.  
XX  
XX Early detection of soft tissue sarcoma comprises determining expression  
PT of a gene in a first soft tissue sample and a normal soft tissue sample  
PT and comparing the gene expression, also useful in treating soft tissue  
PT sarcoma.  
XX  
XX Example 2; SEQ ID NO 409; 210P; English.  
XX  
XX The invention relates to a novel method for detecting soft tissue sarcoma  
CC which comprises obtaining a first soft tissue sample from an individual  
CC and a normal soft tissue sample from the same or different individual,  
CC determining the expression of a gene in both samples and comparing the  
CC expression of the gene in both soft tissue samples, where a higher level  
CC of protein expression in the first soft tissue sample indicates the  
CC presence of soft tissue sarcoma. The method of the invention has  
CC cytoskeletal applications and may be useful for detecting soft tissue  
CC sarcoma, possibly via gene therapy or vaccine production. The nucleic  
CC acid sequences may be useful in diagnostic and screening applications.  
CC The current sequence is that of a human soft tissue sarcoma-upregulated  
CC DNA of the invention. The current sequence is not shown within the  
CC specification per se but was submitted in CD format by the inventor.  
XX  
XX Sequence 116561 BP; 32234 A; 27837 C; 28253 G; 28237 T; 0 U; 0 Other;  
SQ

Query Match 1.4%; Score 45; DB 12; Length 116561;  
Best Local Similarity 100.0%; Pred. No. 2.7e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3078 GTGGCACTGCACCTCGGCAACAGCAAGCAAGCTCTGTCTC 3122  
DB 104267 GTGGCACTGCACCTCGGCAACAGCAAGCAAGCTCTGTCTC 104311

RESULT 180  
ABT10719  
ID ABT10719 standard; cDNA; 122748 BP.  
XX  
XX ABT10719;  
XX  
XX 04-DEC-2002 (first entry)  
XX  
XX Human breast cancer associated coding sequence SEQ ID NO: 853.  
DE Human breast cancer associated coding sequence SEQ ID NO: 853.  
XX  
XX Human, breast specific gene; breast cancer; differential expression;  
KW cytoskeletal; gene therapy; gene; ss.  
XX  
XX Homo sapiens.  
OS  
XX WO200259271-A2.  
XX  
XX 01-AUG-2002.  
XX  
XX 25-JAN-2002; 2002WO-US002176.  
XX

XX 25-JAN-2001; 2001US-0263757P.  
PR 25-APR-2001; 2001US-0286909P.  
PR 23-MAY-2001; 2001US-0292517P.  
XX (GENE-) GENE LOGIC INC.  
XX  
PI Orr MS, Nation M, Digane JC, Zeng W;  
DR WPI; 2002-674803/72.  
XX  
XX Diagnosing breast cancer in a patient comprises detecting the level of  
PT gene expression in cell or tissue samples, where a differential gene  
PT expression is indicative of breast cancer.  
XX  
PS Claim 1; SEQ ID NO 853; 260bp + Sequence Listing; English.  
XX  
XX The present invention relates to methods of diagnosing breast cancer in a  
CC patient, which comprise detecting the level of expression in a tissue  
CC sample of two or more genes selected from those shown in ABT09867-  
CC AB11112, where a differential expression of the genes indicates breast  
CC cancer. The methods are useful in diagnosing, treating, detecting the  
CC progression, and in monitoring treatment of breast cancer in patients.  
CC The methods are also useful as a screening tool for agents that modulate  
CC the onset or progression of breast cancer. The breast cancer genes may be  
CC used as diagnostic markers for the prediction or identification of the  
CC malignant state of breast tissue, for confirming the type and progression  
CC of cancer, and for drug screening and assays. The present sequence is a  
CC coding sequence of the invention. Note: The sequence data for this patent  
CC did not form part of the printed specification, but was obtained in  
CC electronic format directly from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX  
SQ Sequence 122748 BP; 32088 A; 31056 C; 30547 G; 29057 T; 0 U; 0 Other;

Query Match 1.4%; Score 45; DB 6; Length 122748;  
Best Local Similarity 100.0%; Pred. No. 2.7e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 3078 GTGCCACTGCATCCAGCCTGGGCAACAGACAAGACTCTCTC 3122  
DB 37876 GTGCCACTGCATCCAGCCTGGGCAACAGACAAGACTCTCTC 37920

RESULT 181  
ADL13909/C  
ID ADL13909 standard; DNA; 129588 BP.  
XX  
AC ADL13909;  
XX  
XX 06-MAY-2004 (first entry)  
XX  
XX Osteoarthritis-associated polymorphic nucleotide #41.  
XX  
XX ds; gene; osteopathic; antiinflammatory; antiarthritic; gene therapy;  
XX joint space narrowing; osteophyte development; joint pain;  
XX osteoarthritis; SNP; single nucleotide polymorphism.  
XX  
XX Homo sapiens.  
XX  
XX WO2003054166-A2.  
XX  
XX 03-JUL-2003.  
XX  
XX 19-DEC-2002; 2002WO-US041225.  
XX  
XX 20-DEC-2001; 2001US-0342603P.  
XX  
XX (INCY-) INCYTE GENOMICS INC.  
XX  
XX Jones KA, Schafer A;  
XX  
XX WPI; 2003-559141/52.  
DR

XX Determining susceptibility of an individual to joint space narrowing,  
PT osteophyte development and/or joint pain comprises identifying whether  
PT the individual has at least one polymorphism in a polynucleotide encoding  
PT a protein.  
XX  
PS Disclosure; SEQ ID NO 441; 297bp; English.  
XX

XX The invention relates to a method of determining susceptibility of an  
CC individual to joint space narrowing and/or osteophyte development and/or  
CC joint pain comprising identifying whether the individual has at least one  
CC polymorphism in a polynucleotide encoding at least one of the protein  
CC listed in the specification. The methods, composition and agent are  
CC useful for modulating the susceptibility of an individual to joint space  
CC narrowing and/or osteophyte development and/or joint pain that is  
CC associated with a disease, preferably osteoarthritis. The cell line and  
CC the non-human animal are useful for screening for an agent for diagnosing  
CC an individual having susceptibility to joint space narrowing and/or  
CC osteophyte development and/or joint pain. This sequence corresponds to  
CC the polynucleotide encoding a protein listed in the specification. (Note:  
CC The sequence data for this patent did not form part of the printed  
CC specification but was obtained in electronic format directly from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences).

Query Match 1.4%; Score 45; DB 10; Length 129588;  
Best Local Similarity 100.0%; Pred. No. 2.7e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 3073 AGATTGGCACTGCATCCAGCCTGGGCAACAGACAAGACTCT 3117  
DB 27247 AGATTGGCACTGCATCCAGCCTGGGCAACAGACAAGACTCT 27203

RESULT 182  
ABK84797/C  
ID ABK84797 standard; cDNA; 149671 BP.  
XX  
XX ABK84797;  
XX  
XX 14-AUG-2002 (first entry)  
XX  
XX Human cDNA differentially expressed in granulocytic cells #1368.  
XX  
XX Human; ss; granulocytic cell; DNA chip; bacterial infection;  
XX viral infection; parasitic infection; protozoal infection;  
XX fungal infection; sterile inflammatory disease; poriasis;  
XX rheumatoid arthritis; glomerulonephritis; asthma; thrombosis;  
XX cardiac reperfusion injury; renal reperfusion injury; ARDS;  
XX adult respiratory distress syndrome; inflammatory bowel disease;  
XX Crohn's disease; ulcerative colitis; periodontal disease;  
XX granulocyte activation; chronic inflammation; allergy.  
XX  
XX Homo sapiens.  
XX  
XX WO200228999-A2.  
XX  
XX 11-APR-2002.  
XX  
XX 03-OCT-2001; 2001WO-US030821.  
XX  
XX 03-OCT-2000; 2000US-0237189P.  
XX  
XX (GENE-) GENE LOGIC INC.  
XX  
XX Beazer-Barclay Y, Weissman SM, Yamaga S, Vockley J;  
XX  
XX WPI; 2002-435328/46.  
XX  
XX Detecting granulocyte activation by detecting differential expression of  
PT genes associated with granulocyte activation, which serves as diagnostic  
PT markers that is useful for monitoring disease states and drug toxicity.

XX Claim 1; SEQ ID NO 1369; 114pp; English.  
XX  
XX  
CC The invention relates to detecting (M1) granulocyte (GC) activation  
CC (GCA), by detecting the level of expression of gene(s) (Gs) identified by  
CC DNA chip analysis as given in the specification, and comparing the  
CC expression level to an expression level in an unactivated GC, where  
CC differential expression of Gs is indicative of GCA. Also included are  
CC modulating (M2) GA by contacting GC with an agent that alters the  
CC expression of at least one gene in Gs; (2) screening (M3) for an agent  
CC capable of modulating GCA or an inflammation (especially chronic) in a  
CC tissue, an allergic response in a subject, exposure of a subject to a  
CC pathogen or sterile inflammatory disease using the gene expression  
CC profile; (3) detecting (M4) an inflammation (especially chronic) in a  
CC tissue, an allergic response in a subject, exposure of a subject to a  
CC pathogen or sterile inflammatory disease, by detecting the level of  
CC expression in a sample of the tissue of gene(s) from Gs, where the level  
CC of expression of the gene is indicative of inflammation; (4) treating  
CC (M5) an inflammation (especially chronic) or in a tissue, an allergic  
CC response in a subject, exposure of a subject to a pathogen or sterile  
CC inflammatory disease, by contacting a tissue having inflammation with an  
CC agent that modulates the expression of gene(s) from Gs in the tissue. M1  
CC is useful for detecting GCA; M2 is useful for modulating GCA; M3 is useful  
CC for screening an agent capable of modulating GCA preferably in an  
CC inflammation in a tissue; M4 is useful for detecting an inflammation  
CC (especially chronic) in a tissue, an allergic response in a subject,  
CC exposure of a subject to a pathogen or sterile inflammatory disease (e.g.  
CC psoriasis, rheumatoid arthritis, glomerulonephritis, asthma, thrombosis,  
CC cardiac reperfusion injury, renal reperfusion injury, AIDS, adult  
CC respiratory distress syndrome, inflammatory bowel disease, Crohn's  
CC disease, ulcerative colitis, periodontal disease); also bacterial  
CC infection, viral infection, parasitic infection, protozoal infection,  
CC fungal infection and M5 is useful for treating one of the above  
CC conditions. The present sequence represents a gene differentially  
CC expressed in granulocytes. Note: The sequence data for this patent did  
CC not form part of the printed specification, but was obtained in  
CC electronic format directly from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX  
SQ Sequence 149671 BP; 45600 A; 33308 C; 32389 G; 38374 T; 0 U; 0 Other;  
Query Match 1.4%; Score 45; DB 6; Length 149671;  
Best Local Similarity 100.0%; Pred. No. 2.7e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 2888 TGAGGCAAGTGTGATCCTGAGGCCAGAGTTGAGACGACGCTG 2932  
DB 94008 TGAGGCAAGTGTGATCCTGAGGCCAGAGTTGAGACGACGCTG 93964  
RESULT 183  
ADB70361/c  
ID ADB70361 standard; cDNA; 149671 BP.  
XX  
AC ADB70361;  
XX  
DT 04-DRC-2003 (first entry)  
XX  
DE Moesin cDNA SEQ ID NO:53.  
XX  
XX cancer; malignant pleural mesothelioma; MPW; lung adenocarcinoma;  
XX squamous carcinoma; medulloblastoma; prostate cancer; breast cancer;  
XX diffuse large B-cell lymphoma; follicular lymphoma; ovarian cancer;  
XX human; gene; ss.  
XX Homo sapiens.  
XX  
XX  
XX WO2003021229-A2.  
XX  
XX 13-MAR-2003.  
XX  
XX 05-SEP-2002; 2002WO-US028203.  
XX

PR 05-SEP-2001; 2001US-0317389P.  
PR 30-AUG-2002; 2002US-00236031.  
XX  
XX (BGHM ) BRIGHAM & WOMENS HOSPITAL INC.  
XX  
XX Gordon GJ, Jensen RV, Gullans SR, Bueno R;  
XX WPI; 2003-290233/28.  
XX P-PADB; ADB70362.  
XX  
XX Diagnosing cancer cells in tissue sample, or determining prognosis or  
XX outcome of cancer patient, by calculating ratio of expression levels of  
XX genes that are differentially expressed in cancer and non cancer tissues.  
XX  
XX Claim 67; Page 181-263; 396pp; English.  
XX  
XX The present invention describes a method (M1) for diagnosing the presence  
XX of cancer cells or non-cancer cells in a tissue sample, or determining  
XX the prognosis or outcome of a cancer patient. M1 involves providing a set  
XX of genes that are differentially expressed in cancerous or non-cancerous  
XX conditions, determining the expression levels of the set of genes and  
XX calculating a ratio of the expression levels of the differentially  
XX expressed genes. M1 is useful for diagnosing the presence of cancer cells  
XX or non-cancer cells in a tissue sample, where the cancer is malignant  
XX pleural mesothelioma (MPW), lung adenocarcinoma, squamous carcinoma,  
XX medulloblastoma, prostate cancer, breast cancer, diffuse large B-cell  
XX lymphoma, follicular lymphoma and ovarian cancer, and for determining  
XX prognosis or outcome of a cancer patient. The ratio of expression levels  
XX of differentially expressed genes is used as an indicator of cancer type,  
XX cancer class, and/or cancer prognosis, all of which are useful for  
XX determining a course of treatment of a patient. The present sequence  
XX encodes a human protein which is used in an example from the present  
XX invention.  
SQ Sequence 149671 BP; 45600 A; 33308 C; 32389 G; 38374 T; 0 U; 0 Other;  
Query Match 1.4%; Score 45; DB 9; Length 149671;  
Best Local Similarity 100.0%; Pred. No. 2.7e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 2888 TGAGGCAAGTGTGATCCTGAGGCCAGAGTTGAGACGACGCTG 2932  
DB 94008 TGAGGCAAGTGTGATCCTGAGGCCAGAGTTGAGACGACGCTG 93964  
RESULT 184  
ADJ37140/c  
ID ADJ37140 standard; cDNA; 149671 BP.  
XX  
AC ADJ37140;  
XX  
XX 22-APR-2004 (first entry)  
XX  
XX Human malignant pleural mesothelioma (MPW) cDNA #23.  
XX  
XX Human; malignant pleural mesothelioma; MPW; gene; ss; tumour;  
XX lung adenocarcinoma; squamous carcinoma; medulloblastoma;  
XX prostate cancer; breast cancer; diffuse large B-cell lymphoma;  
XX follicular lymphoma; ovarian cancer; cytostatic.  
XX  
XX Homo sapiens.  
XX  
XX  
XX US2003219760-A1.  
XX  
XX 27-NOV-2003.  
XX  
XX 05-SEP-2002; 2002US-00236031.  
XX  
XX 05-SEP-2001; 2001US-0317389P.  
XX 30-AUG-2002; 2002US-0407431P.  
XX  
XX (BGHM ) BRIGHAM & WOMENS HOSPITAL INC.  
XX



XX The invention relates to a method of determining susceptibility of an  
 CC individual to joint space narrowing and/or osteophyte development and/or  
 CC joint pain comprising identifying whether the individual has at least one  
 CC polymorphism in a polynucleotide encoding at least one of the protein  
 CC listed in the specification. The methods, composition and agent are  
 CC useful for modulating the susceptibility of an individual to joint space  
 CC narrowing and/or osteophyte development and/or joint pain that is  
 CC associated with a disease, preferably osteoarthritis. The cell line and  
 CC the non-human animal are useful for screening for an agent for diagnosing  
 CC an individual having susceptibility to joint space narrowing and/or  
 CC osteophyte development and/or joint pain. This sequence corresponds to  
 CC the polynucleotide encoding a protein listed in the specification. (Note:  
 CC The sequence data for this patent did not form part of the printed  
 CC specification but was obtained in electronic format directly from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences).

SQ Sequence 190117 BP; 47446 A; 48907 C; 48857 G; 44888 T; 0 U; 19 Other;

Query Match 1.4%; Score 45; DB 10; Length 190117;  
 Best Local Similarity 100.0%; Pred. No. 2.7e-10;  
 Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3071 CAAGATTGTGCCTGCACTCCAGCTTGGGCAACAGCAAGACT 3115  
 Db 99468 CAAGATTGTGCCTGCACTCCAGCTTGGGCAACAGCAAGACT 99512

RESULT 187  
 ABD33586  
 ID ABD33586 standard; DNA; 191584 BP.  
 XX ABD33586;  
 AC  
 XX 18-NOV-2004 (first entry)  
 DT  
 XX Human cancer-associated (CA) gene HD07-118.  
 DE  
 XX Human; cancer-associated protein; CAP; cancer-associated gene; CA; gene;  
 KM de; cancer; cytostatic.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO2004058146-A2.  
 PD 15-JUL-2004.  
 PF 15-DEC-2003; 2003WO-US040081.  
 XX  
 PR 17-DEC-2002; 2002US-00322281.  
 XX  
 PA (SAGR-) SAGRES DISCOVERY INC.  
 XX  
 PI Morris DW, Malandro MS;  
 XX  
 DR WPI; 2004-499109/47.  
 XX  
 PT Novel human cancer associated protein encoded within open reading frame  
 of cancer associated gene, useful as targets for diagnosing cancer.  
 PS Claim 16; SEQ ID NO 800; 182pp; English.  
 XX  
 CC The invention relates to cancer-associated proteins (CAP) and the cancer-  
 CC associated (CA) nucleic acids encoding them. The invention also relates  
 CC to a method for treating cancers involving administering to a patient an  
 CC inhibitor of CAP, and a method of screening for anticancer activity in a  
 CC potential drug involving providing a cell that expresses a CA gene,  
 CC contacting a tissue sample derived from a cancer cell with an anticancer  
 CC drug candidate and monitoring the effect of the anticancer drug candidate  
 CC on expression of the CA gene. The CAP proteins are useful for detecting  
 CC cancer associated with expression of a CAP protein in a test cell sample  
 CC and for screening for a bioactive agent capable of modulating the  
 CC activity of a CAP protein. The CA nucleic acids are useful for diagnosing

CC cancer, involving determining the expression of a CA nucleic acid in a  
 CC tissue. This sequence represents a human CA gene of the invention. Note:  
 CC The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequences

SQ Sequence 191584 BP; 57287 A; 37750 C; 38021 G; 58526 T; 0 U; 0 Other;

Query Match 1.4%; Score 45; DB 13; Length 191584;  
 Best Local Similarity 100.0%; Pred. No. 2.7e-10;  
 Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3071 CAAGATTGTGCCTGCACTCCAGCTTGGGCAACAGCAAGACT 3115  
 Db 106736 CAAGATTGTGCCTGCACTCCAGCTTGGGCAACAGCAAGACT 106780

RESULT 188  
 ADR67026  
 ID ADR67026 standard; DNA; 191584 BP.  
 XX ADR67026;  
 AC  
 XX 18-NOV-2004 (first entry)  
 DT  
 XX Human cancer associated gene genomic sequence SEQ ID NO:72.  
 DE  
 XX  
 KM cancer; cancer associated nucleic acid; cancer associated gene;  
 KM cancer associated protein; CAP; cytostatic; vaccine; gene therapy;  
 KM lymphoma; leukemia; human; gene; ds.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO2004074321-A2.  
 PD 02-SEP-2004.  
 PF 17-FEB-2004; 2004WO-US005000.  
 XX  
 PR 14-FEB-2003; 2003US-00367094.  
 XX  
 PR 14-MAR-2003; 2003US-00388838.  
 PR 23-SEP-2003; 2003US-00669920.  
 PR 15-DEC-2003; 2003US-00737318.  
 XX  
 PA (SAGR-) SAGRES DISCOVERY INC.  
 XX  
 PI Morris DW, Malandro MS;  
 XX  
 DR WPI; 2004-652915/63.  
 DR P-PSDB; ADR67028.  
 XX  
 PT New isolated cancer-associated polynucleotides and polypeptides useful  
 for diagnosing, preventing or treating cancers, especially lymphoma and  
 leukemia, or in screening for agents that modulate cancer.  
 XX  
 PS Claim 16; SEQ ID NO 72; 166pp; English.  
 XX  
 CC The present invention describes an isolated cancer associated (CA)  
 CC nucleic acid (1). Also described: (1) an expression vector comprising (1)  
 CC ; (2) a host cell comprising (1) or the expression vector; (3) a  
 CC microarray for detecting a CA nucleic acid; (4) an isolated cancer  
 CC associated protein (CAP) polypeptide, encoded within an open reading  
 CC frame of a CA sequence; (5) an isolated antibody, or its antigen binding  
 CC fragment, that binds to the above polypeptide; (6) a hybridoma that  
 CC produces the above monoclonal antibody; (7) a pharmaceutical composition  
 CC comprising the above antibody and a pharmaceutical excipient; (8) a kit  
 CC for detecting cancer cells, comprising the (monoclonal) antibody  
 CC described above; (9) methods for diagnosing cancer or for detecting the  
 CC presence or absence of cancer cells in an individual; (10) a method for  
 CC inhibiting growth of cancer cells in an individual; (11) a method for  
 CC delivering a therapeutic agent to cancer cells in an individual; (12) an  
 CC electronic library comprising the above polynucleotide or polypeptide, or  
 CC their fragments; (13) methods of screening for anticancer activity or for



CC a bioactive agent capable of modulating the activity of a CAP; (14)  
CC methods for detecting cancer associated with expression of a polypeptide  
CC in a test cell sample, or with the presence of an antibody in a test  
CC serum sample; (15) a method for treating cancers; and (16) a method for  
CC inhibiting the expression of CA gene in a cell. The CA sequences have  
CC cytostatic activity, and can be used in vaccines, and in gene therapy.  
CC The composition and methods are useful for detecting, diagnosing,  
CC preventing and treating cancers, especially lymphoma and leukaemia. They  
CC may also be used in screening for agents that modulate cancer. The  
CC present sequence represents a cancer associated gene genomic DNA  
CC sequence, which is used in the exemplification of the present invention.  
CC  
SQ Sequence 191584 BP; 57287 A; 37750 C; 38021 G; 58526 T; 0 U; 0 Other;  
  
Query Match 1.4%; Score 45; DB 13; Length 191584;  
Best Local Similarity 100.0%; Pred. No. 2.7e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
OY 3071 CAAGATTGGCAGCTGCAGCTCGAGCTGGGCAAGAGAGACT 3115  
Db 106736 CAGAGTTGTGCTGCAGCTCGAGCTGGGCAAGAGAGACT 106780  
|||||  
RESULT 189  
ADX98573/C  
ID ADX98573 standard; DNA; 285300 BP.  
AC ADX98573;  
XX  
XX  
DT 05-MAY-2005 (first entry)  
XX  
DE Human D4, zinc and double PHD fingers, family 3 (DPF3) genomic DNA.  
XX  
XX SNP detection; breast tumor; endocrine disease;  
KM gynecology and obstetrics; neoplasm; cytostatic; metastasis;  
KM gene therapy; RNA interference; chromosome 14; ds; SNP;  
KM single nucleotide polymorphism;  
KM D4, zinc and double PHD fingers, family 3; DPF3;  
KM guanine-nucleotide exchange factor.  
XX  
XX Homo sapiens.  
OS  
FH  
FH Key Location/Qualifiers  
FT 207  
FT variation /\*tag= a  
FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
FT 486  
FT variation /\*tag= b  
FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
FT 1745  
FT variation /\*tag= c  
FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
FT 1922  
FT variation /\*tag= d  
FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
FT 2190  
FT variation /\*tag= e  
FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
FT 2590  
FT variation /\*tag= f  
FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
FT 2637  
FT variation /\*tag= g  
FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
FT 2804  
FT variation /\*tag= h  
FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
FT 2806  
FT variation /\*tag= i  
FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
FT 2895  
FT variation /\*tag= j  
FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
FT

FT variation 3109  
FT /\*tag= k  
FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
FT 3185  
FT variation /\*tag= l  
FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
FT 3355  
FT variation /\*tag= m  
FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
FT 3642  
FT variation /\*tag= n  
FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
FT 3805  
FT variation /\*tag= o  
FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
FT 4236  
FT variation /\*tag= p  
FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
FT 4331  
FT variation /\*tag= q  
FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
FT 4509  
FT variation /\*tag= r  
FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
FT 4959  
FT variation /\*tag= s  
FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
FT 5009  
FT variation /\*tag= t  
FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
FT 5676  
FT variation /\*tag= u  
FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
FT 6507  
FT variation /\*tag= v  
FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
FT 6695  
FT variation /\*tag= w  
FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
FT 6717  
FT variation /\*tag= x  
FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
FT 7131  
FT variation /\*tag= y  
FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
FT 7873  
FT variation /\*tag= z  
FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
FT 7922  
FT variation /\*tag= aa  
FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
FT 8652  
FT variation /\*tag= ab  
FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
FT 9817  
FT variation /\*tag= ac  
FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
FT 10272  
FT variation /\*tag= ad  
FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
FT 10823  
FT variation /\*tag= ae  
FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
FT 11465  
FT variation /\*tag= af  
FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
FT 11639  
FT variation /\*tag= ag  
FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
FT 12177  
FT variation /\*tag= ah  
FT /standard\_name= "Single nucleotide polymorphism (SNP)"  
FT 12604  
FT variation

```

FT      /*tag= ai
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      13363
FT      /*tag= aj
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      13454
FT      /*tag= ak
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      13540
FT      /*tag= al
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      13923
FT      /*tag= am
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      14507
FT      /*tag= an
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      16550
FT      /*tag= ao
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      17641
FT      /*tag= ap
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      18903
FT      /*tag= aq
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      19395
FT      /*tag= ar
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      19527
FT      /*tag= as
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      20369
FT      /*tag= at
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      20505
FT      /*tag= au
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      20562
FT      /*tag= av
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      20907
FT      /*tag= aw
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      20949
FT      /*tag= ax
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      21278
FT      /*tag= ay
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      21314
FT      /*tag= az
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      21905
FT      /*tag= ba
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      22252
FT      /*tag= bb
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      22941
FT      /*tag= bc
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      23542
FT      /*tag= bd
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      24677
FT      /*tag= be
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      25009
FT      /*tag= bf
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      25618
FT      /*tag= bg

```

```

FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      26082
FT      /*tag= bh
FT      /standard_name= "Single nucleotide polymorphism (SNP) "
FT      26136
FT      /*tag= bi
FT      /standard_name= "Single nucleotide polymorphism (SNP) "

Query Match      1.4%; Score 45; DB 14; Length 285100;
Best Local Similarity 100.0%; Pred. No. 2.6e-10;
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      3078 GTGCACTGCACTCCAGCCCTGGGCAACAGAGACTCTGTCTC 3122
Db      220046 GTGCACCTGCACTCCAGCCCTGGGCAACAGAGACTCTGTCTC 220002

RESULT 190
ADE86352
ID ADE86352 standard; DNA; 300000 BP.
XX
AC ADE86352;
XX
DT 29-JAN-2004 (first entry)
XX
DE Human PRPN11 genomic DNA sequence SEQ ID NO:33.
XX
KW Noonan syndrome; protein tyrosine phosphatase 11; PRPN11; mutant;
KW variant; mutation; chromosome 12; enzyme; gene; ds.
XX
OS Homo sapiens.
XX
PN WC2003029422-A2.
XX
PD 10-APR-2003.
XX
PF 01-OCT-2002; 2002MO-US031290.
XX
PR 01-OCT-2001; 2001US-0326532P.
XX
PA (MOUN ) MOUNT SINAI SCHOOL MEDICINE.
XX
PI Gelb BD, Tartaglia M;
XX
DR WPI; 2003-381624/36.
XX
PT Diagnosing and treating Noonan syndrome in a subject using a mutation in
PT a protein tyrosine phosphatase 11 gene with increased expression or
PT activity.
XX
PS Claim 24; SEQ ID NO 33; 262pp; English.
XX
CC The present invention describes a method for diagnosing Noonan syndrome
CC in a subject. The method comprises detecting a mutation in the protein
CC tyrosine phosphatase 11 (PRPN11) gene in a subject, where the mutation
CC results in increased PRPN11 expression or activity as compared to
CC control. The human PRPN11 gene is located on chromosome 12, more
CC specifically to 12q24. Also described: (1) a kit for diagnosing Noonan
CC syndrome, comprising an oligonucleotide that specifically hybridises to
CC or adjacent to a site of mutation of a PRPN11 gene that results in
CC increased activity of a PRPN11 protein encoded by the gene or an antibody
CC that specifically recognises a mutation in a PRPN11 protein, and
CC instructions for use; (2) diagnosing Noonan syndrome in a subject,
CC comprising assessing the level of expression or activity of a PRPN11
CC protein in the test subject, and comparing it to the level of expression
CC or activity in a control subject, where an increased expression or basal
CC activity of the PRPN11 protein in the test subject compared to the
CC control is indicative of Noonan syndrome; (3) treating Noonan syndrome in
CC a patient, comprising administering an agent that modulates the
CC expression or activity of a PRPN11 protein in association with a carrier;
CC (4) an isolated PRPN11 variant comprising a mutation resulting in
CC increased level of PRPN11 activity; (5) an isolated cell comprising a
CC vector comprising a nucleic acid encoding the PRPN11 variant of (4),
CC operatively associated with an expression control sequence; (6) an

```

CC isolated nucleic acid encoding the PRPN11 variant of (4); and (7) an  
CC isolated oligonucleotide which specifically hybridises to the nucleic  
CC acid of (6). The methods and compositions of the present invention are  
CC useful for diagnosing and treating a disorder associated with the  
CC aberrant expression and/or activity of the PRPN11 gene, specifically  
CC Noonan syndrome. The present sequence represents human PRPN1 genomic  
CC DNA, which is given in the exemplification of the present invention.  
XX  
SQ Sequence 300000 BP; 84671 A; 64420 C; 64260 G; 85849 T; 0 U; 800 Other;  
  
Query Match 1.4%; Score 45; DB 10; Length 300000;  
Best Local Similarity 100.0%; Pred. No. 2.6e-10;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 3078 GTGCACATGCATCCAGCTGTGGCAACAGCAAGACTGTCTC 3122  
Db 105945 GTGCACATGCATCCAGCTGTGGCAACAGCAAGACTGTCTC 105989  
  
RESULT 191  
AD014076  
ID AD014076 standard; DNA; 300001 BP.  
XX  
XX ADO14076;  
XX  
DT 12-AUG-2004 (first entry)  
XX  
DE Human protein tyrosine phosphatase 11 gene sequence SRO ID NO:33.  
XX  
XX protein tyrosine phosphatase gene 11; PRPN11; enzyme;  
KM protein tyrosine phosphatase gene 11 variant; PRPN11 variant;  
KM haematologic disorder; mutation; increased PRPN1 activity; cytostatic;  
KM neutroprotective; PRPN11 modulator; acute lymphoblastic leukaemia; ALL;  
KM acute myeloid leukaemia; AML; juvenile myelomonocytic leukaemia; JMML;  
KM myelodysplastic syndrome; MDS; cancer; pre-cancerous condition;  
KM lung cancer; colorectal cancer; pancreatic cancer; bladder cancer;  
KM kidney cancer; thyroid cancer; melanoma; leukaemia; human; chromosome 12;  
KW gene; ds.  
XX  
XX Homo sapiens.  
OS Synthetic.  
XX  
XX  
FH Key Location/Qualifiers  
FT exon 123211..123604  
FT /tag= a  
FT /number= 1  
FT 123591..248877  
FT /tag= b  
FT /product= "PRPN11"  
FT /transl\_except= (pos:246260..246262,aa:Arg)  
FT /transl\_except= (pos:246299..246301,aa:Pro)  
FT 123605..136830  
FT /tag= c  
FT /number= 1  
FT 136831..136953  
FT /tag= d  
FT /number= 2  
FT 136954..194430  
FT /tag= e  
FT /number= 2  
FT 194431..194625  
FT /tag= f  
FT /number= 3  
FT 194626..197307  
FT /tag= g  
FT /number= 3  
FT 197308..197500  
FT /tag= h  
FT /number= 4  
FT 197501..198676  
FT /tag= i  
FT /number= 4  
FT 198677..198793  
FT exon

FT /tag= j  
FT /number= 5  
FT 198794..200062  
FT /tag= k  
FT /number= 5  
FT 200063..200176  
FT /tag= l  
FT /number= 6  
FT 200177..217056  
FT /tag= m  
FT /number= 6  
FT 217057..217153  
FT /tag= n  
FT /number= 7  
FT 217154..221763  
FT /tag= o  
FT /number= 7  
FT 221764..221843  
FT /tag= p  
FT /number= 8  
FT 221844..221969  
FT /tag= q  
FT /number= 8  
FT 221970..222128  
FT /tag= r  
FT /number= 9  
FT 222129..226186  
FT /tag= s  
FT /number= 9  
FT 226187..226318  
FT /tag= t  
FT /number= 10  
FT 226319..230587  
FT /tag= u  
FT /number= 10  
FT 230588..230742  
FT /tag= v  
FT /number= 11  
FT 230743..232555  
FT /tag= w  
FT /number= 11  
FT 232556..232623  
FT /tag= x  
FT /number= 12  
FT 232624..233136  
FT /tag= y  
FT /number= 12  
FT 233137..233288  
FT /tag= z  
FT /number= 13  
FT 233289..246256  
FT /tag= aa  
FT /number= 13  
FT 246257..246369  
FT /tag= ab  
FT /number= 14  
FT 246370..248807  
FT /tag= ac  
FT /number= 14  
FT 248808..248909  
FT /tag= ad  
FT /number= 15  
FT 248910..249937  
FT /tag= ae  
FT /number= 15  
FT 249938..250510  
FT /tag= af  
FT /number= 16  
FT exon  
XX  
XX WO2004041216-A2.  
XX  
XX 21-MAY-2004.  
XX

PF 05-NOV-2003; 2003MO-US035349.  
 XX  
 PR 05-NOV-2002; 2002US-0424170P.  
 XX  
 PA (MOUNT SINAI SCHOOL MEDICINE.  
 PA (UNIV-) UNIVERSITÄTSKLINIKUM FREIBURG.  
 PI Gelb BD, Tartaglia M, Niemeyer C;  
 XX WPI: 2004-400526/37.  
 DR P-PSDB; AD014045.  
 XX  
 PT Novel protein tyrosine phosphatase gene 11 variant, useful for  
 PT characterizing cancerous and precancerous conditions.  
 XX  
 PS Claim 12; SEQ ID NO 33; 279pp; English.  
 XX  
 CC The present invention describes an isolated protein tyrosine phosphatase  
 CC gene 11 (PTPNI1) variant (I) associated with haematologic disorders, and  
 CC comprising a mutation resulting in an increased level of PTPNI1 activity,  
 CC where the mutation corresponds to an amino acid substitution selected  
 CC from Asn58Tyr, Gly60Val, Asp61Tyr, Asp61Val, Glu69Lys, Phe71Lys,  
 CC Phe71Leu, Ala72Thr, Ala72Val, Ala72Asp, Glu76Lys, Glu76Gln, Glu76Val,  
 CC Glu76Gly, Glu76Ala, Pro491Ser, Pro491Leu, Ser502Pro, Gly503Arg,  
 CC Gly503Ala, Thr507Lys, Glu510Lys, and combinations of them, in the human  
 CC PTPNI1 593 amino acid sequence of SEQ ID NO:2(AD014045). Also described:  
 CC (1) characterizing (M1) a haematologic disorder in a subject, which  
 CC involves detecting a mutation in the PTPNI1 gene in the subject, where  
 CC the mutation results in an increased expression or activity of a PTPNI1  
 CC protein encoded by the gene as compared to a control, or assessing the  
 CC level of expression or activity of a PTPNI1 protein in the test subject  
 CC and comparing it to a control; (2) a kit (II) for diagnosing a  
 CC haematologic disorder; (3) treating (M2) a haematologic disorder in a  
 CC patient, which involves administering an agent that modulates the  
 CC expression or activity of PTPNI1 protein and a carrier; (4) an isolated  
 CC cell (III) comprising a vector having (1), operatively associated with an  
 CC expression control sequence; (5) an isolated nucleic acid encoding (1);  
 CC and (6) characterizing (M3) a cancer or pre-cancerous condition in a  
 CC subject, which involves detecting a mutation in the PTPNI1 gene in the  
 CC subject, where the mutation results in an increased expression or  
 CC activity of a PTPNI1 protein encoded by the gene as compared to a  
 CC control. (I) has cytostatic and neuroprotective activities, and can be  
 CC used as a modulator of PTPNI1 activity. (M2) is useful for treating a  
 CC haematologic disorder such as acute lymphoblastic leukaemia (ALL), acute  
 CC myeloid leukaemia (AML), juvenile myelomonocytic leukaemia (JMML) and  
 CC myelodysplastic syndrome (MDS), in a patient (M3) is useful for  
 CC characterizing a cancer or pre-cancerous condition in a subject, where  
 CC the cancer is lung cancer, colorectal cancer, pancreatic cancer, bladder  
 CC cancer, kidney cancer, thyroid cancer, melanoma and leukaemia. The  
 CC present sequence represents the human PTPNI1 gene sequence, which is used  
 CC in the exemplification of the present invention. The human PTPNI1 gene is  
 CC located on chromosome 12, more specifically to 12q24.  
 XX  
 SQ Sequence 300001 BP; 84672 A; 64420 C; 64260 G; 85849 T; 0 U; 800 Other;  
 Query Match 1.4%; Score 45; DB 12; Length 300001;  
 Best Local Similarity 100.0%; Pred. No. 2, 6e-10;  
 Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 3078 GTGGCACTGCATCTCCAGCTTGCGCAACAGACGAAGACTCTGTCTC 3122  
 Db 105945 GTGGCACTGCATCTCCAGCTTGCGCAACAGACGAAGACTCTGTCTC 105989  
 RESULT 192  
 ADJ12734  
 ID ADJ12734 standard; DNA; 116 BP.  
 XX  
 AC ADJ12734;  
 XX  
 DT 20-MAY-2004 (first entry)  
 XX  
 DE DNA fragment of a BAC clone that encodes a human secreted protein Seq588.

XX  
 KM human; secreted; cancer; haematopoietic disease; anaemia;  
 KM multiple myeloma; reproductive system disorder; prostatic;  
 KM inguinal hernia; musculoskeletal disease; systemic lupus erythematosus;  
 KM gout; cardiovascular disease; arrhythmia; hypernatremia; fetal disease;  
 KM fetal alcohol syndrome; Down's syndrome; excretory disease;  
 KM urinary incontinence; renal disorder; neural; sensory disease;  
 KM Alzheimer's disease; meningitis; respiratory disease; emphysema;  
 KM occupational lung disease; endocrine disease; diabetes;  
 KM glomerulonephritis; digestive disease; portal hypertension;  
 KM irritable bowel syndrome; epithelial disease; scleroderma;  
 KM epidermolysis bullosa; cytostatic; antineoplastic; antiarrhythmic;  
 KM antischistosomal; anti-HIV; immunosuppressive; antiinflammatory;  
 KM antipsoriatic; antibacterial; osteopathic; dermatological; antigout;  
 KM immunomodulator; antiarrhythmic; cardiac; nootropic; antilipemic;  
 KM nephrotoxic; uropathic; neuroprotective; antiparkinsonian; tranquilizer;  
 KM antidiabetic; anabolic; hypertensive; vulnery; ds.  
 XX  
 OS Homo sapiens.  
 XX  
 XX US2004010132-A1.  
 XX 15-JAN-2004.  
 PD  
 XX  
 XX 30-OCT-2001; 2001US-00984429.  
 PF  
 XX 09-OCT-1997; 97US-0061463P.  
 PR 09-OCT-1997; 97US-0061527P.  
 PR 09-OCT-1997; 97US-0061529P.  
 PR 09-OCT-1997; 97US-0061532P.  
 PR 09-OCT-1997; 97US-0061536P.  
 PR 09-OCT-1997; 97US-0071498P.  
 PR 08-OCT-1998; 98WO-US021142.  
 PR 08-APR-1999; 99US-00288143.  
 PR 01-NOV-2000; 2000US-0244591P.  
 XX  
 PA (ROSE/) ROSEN C A.  
 PA (BREW/) BREWER L A.  
 PA (DUAN/) DUAN R D.  
 PA (RUBE/) RUBEN S M.  
 PA (FLOR/) FLORENCE K A.  
 PA (GREEN/) GREENE J M.  
 PA (YOUN/) YOUNG P B.  
 PA (FERR/) FERRIE A M.  
 PA (YUGG/) YU G.  
 PA (FLOR/) FLORENCE C.  
 PA (EBNER/) EBNER R.  
 PA (OLSEN/) OLSEN H.  
 PI  
 PI Young CA, Brewer LA, Duan RD, Ruben SM, Florence KA, Greene JM,  
 PI Young PB, Ferrie AM, Yu G, Florence C, Ebner R, Olsen H;  
 XX WPI: 2004-090518/09.  
 DR  
 XX  
 PT New isolated nucleic acids and polypeptides, useful for diagnosing,  
 PT treating, preventing or ameliorating diseases or disorders e.g. cancer,  
 PT anemia, arthritis, asthma, inflammatory bowel disease or Alzheimer's  
 PT disease.  
 XX  
 PS Disclosure; SEQ ID NO 588; 286pp; English.  
 XX  
 CC This invention relates to novel polynucleotides encoding human secreted  
 CC proteins. Specifically, it refers to the vectors, host cells, recombinant  
 CC and synthetic methods for producing human polynucleotides, polypeptides  
 CC and antibodies. Furthermore, it relates to screening methods to identify  
 CC agonists and antagonists that can be used to inhibit or enhance the  
 CC production and function of the secreted proteins. The present invention  
 CC describes these compositions as useful for diagnosing, treating or  
 CC preventing disorders such as cancer, haematopoietic diseases including  
 CC anaemia and multiple myeloma, reproductive system disorders including  
 CC prostatic and inguinal hernia, musculoskeletal diseases including  
 CC systemic lupus erythematosus and gout, cardiovascular disease including  
 CC arrhythmia and hypernatremia, mixed fetal diseases including fetal

CC alcohol syndrome and Down's syndrome, excretory diseases including  
CC urinary incontinence and renal disorders, neural or sensory disease  
CC including Alzheimer's disease and meningitis, respiratory disease  
CC including emphysema and occupational lung disease, endocrine diseases  
CC including diabetes and glomerulonephritis, digestive diseases including  
CC portal hypertension and irritable bowel syndrome and connective tissue or  
CC epithelial diseases including scleroderma and epidermolysis bullosa. As  
CC such, there are various activities such as cytostatic, antianemic,  
CC antiarthritic, antiasthmatic, anti-HIV, immunosuppressive,  
CC antiinflammatory, antiparasitic, antibacterial, osteopathic,  
CC dermatological, antitumor, immunomodulator, antiarrhythmic, cardiant,  
CC neurotropic, antilipemic, nephroprotective, uropathic, neuroprotective,  
CC antiparkinsonian, tranquilizer, antidiabetic, anabolic, hypotensive and  
CC vulnerary. This polynucleotide is a DNA fragment of a BAC clone that  
CC encodes a human secreted protein of the invention. NOTE: This sequence  
CC does not appear in the printed specification but has been obtained in  
CC electronic format from the US patent office at the following web site  
CC www.segdata.uspto.gov/sequence.html; Document ID: 20040010132.

XX Sequence 116 BP; 35 A; 29 C; 35 G; 17 T; 0 U; 0 Other;

Query Match 1.4%; Score 44; DB 12; Length 116;  
Best Local Similarity 100.0%; Pred. No. 1e-09;  
Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3079 TGCCACTGCATCCAGCCTGGGCAACAGCAAGACTCTGTCTC 3122

Db 63 TGCCACTGCATCCAGCCTGGGCAACAGCAAGACTCTGTCTC 106

RESULT 193

AAK67381  
ID AAK67381 standard; DNA; 126 BP.

AC AAK67381;

DT 06-NOV-2001 (first entry)

XX Human immune/haematopoietic antigen genomic sequence SEQ ID NO:22193.

XX Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;

KW cyostatic; gene therapy; vaccine; metastasis; ds.

XX Homo sapiens.

XX WO200157182-A2.

PD 09-AUG-2001.

PF 17-JAN-2001; 2001WO-US001354.

XX 31-JAN-2000; 2000US-0179065P.

PR 04-FEB-2000; 2000US-0180628P.

PR 24-FEB-2000; 2000US-0184664P.

PR 02-MAR-2000; 2000US-0186350P.

PR 16-MAR-2000; 2000US-0188874P.

PR 17-MAR-2000; 2000US-0190076P.

PR 18-APR-2000; 2000US-0198123P.

PR 19-MAY-2000; 2000US-0205515P.

PR 07-JUN-2000; 2000US-0209467P.

PR 28-JUN-2000; 2000US-0214886P.

PR 30-JUN-2000; 2000US-0215135P.

PR 07-JUL-2000; 2000US-021647P.

PR 07-JUL-2000; 2000US-021680P.

PR 11-JUL-2000; 2000US-0217486P.

PR 14-JUL-2000; 2000US-0218290P.

PR 26-JUL-2000; 2000US-0220963P.

PR 26-JUL-2000; 2000US-0220964P.

PR 14-AUG-2000; 2000US-0224518P.

PR 14-AUG-2000; 2000US-0225213P.

PR 14-AUG-2000; 2000US-0225214P.

PR 14-AUG-2000; 2000US-0225266P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226688P.  
PR 22-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227093P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0228287P.  
PR 01-SEP-2000; 2000US-0228343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230437P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232080P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 12-SEP-2000; 2000US-0232088P.  
PR 14-SEP-2000; 2000US-0232397P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 26-SEP-2000; 2000US-0235484P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235836P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236367P.  
PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0236802P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 02-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239935P.  
PR 13-OCT-2000; 2000US-0239937P.  
PR 20-OCT-2000; 2000US-0240960P.  
PR 20-OCT-2000; 2000US-0241221P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 01-NOV-2000; 2000US-0241826P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.

PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249246P.  
PR 17-NOV-2000; 2000US-0249247P.  
PR 17-NOV-2000; 2000US-0249257P.  
PR 17-NOV-2000; 2000US-0249259P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0256719P.  
PR 06-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251858P.  
PR 08-DEC-2000; 2000US-0251865P.  
PR 08-DEC-2000; 2000US-0251989P.  
PR 08-DEC-2000; 2000US-0251990P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0259678P.  
PA (HUMA-) HUMAN GENOME SCI INC.  
PI Rosen CA, Barash SC, Ruben SM;  
XX WPI; 2001-483426/52.  
XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,  
PT useful for preventing, diagnosing and/or treating cancers and metastasis.  
XX  
XX  
PS Disclosure; SEQ ID NO 22193; 3071bp + Sequence listing; English.  
XX  
XX AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)  
CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytosolic  
CC activity, and can be used in gene therapy and vaccine production. (I)  
CC proteins and polynucleotides may be used in the prevention, diagnosis and  
CC treatment of diseases associated with inappropriate (I) expression. For  
CC example, they may be used to treat disorders associated with decreased  
CC expression by rectifying mutations or deletions in a patient's genome  
CC that affect the activity of (I) by expressing inactive proteins or to  
CC supplement the patients own production of (I). Additionally, (I)  
CC polynucleotides may be used to produce the secreted (I), by inserting the  
CC nucleic acids into a host cell and culturing the cell to express the  
CC protein. (I) proteins and polynucleotides may be used to prevent,  
CC diagnose and treat immune/haematopoietic-related diseases, especially  
CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703  
CC to AAK87694 represent human immune/haematopoietic antigen genomic  
CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169  
CC represent sequences used in the exemplification of the present invention  
XX  
XX  
XX Sequence 126 BP; 38 A; 33 C; 36 G; 19 T; 0 U; 0 Other;

Query Match 1.4%; Score 44; DB 4; Length 126;  
Best Local Similarity 100.0%; Pred. No. 1e-09;  
Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 3079 TGGCACTGCACCTCCGGAACAAGACCAAGACTCTCTTC 3122  
DB 72 TGGCACTGCACCTCCGGAACAAGACCAAGACTCTCTTC 115  
RESULT 194  
AAK74457/c  
ID AAK74457 standard; DNA; 139 BP.  
XX  
XX AAK74457;  
AC  
XX  
DT 07-NOV-2001 (first entry)  
XX  
DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:29269.  
XX  
XX Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;  
KM cytosolic; gene therapy; vaccine; metastasis; de.  
XX  
XX Homo sapiens.  
OS  
XX  
XX W0200157182-A2.  
PN  
XX  
PD 09-AUG-2001.  
XX  
PF 17-JAN-2001; 2001WO-US001354.  
XX  
XX 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 02-FEB-2000; 2000US-0184664P.  
PR 16-MAR-2000; 2000US-0186350P.  
PR 17-MAR-2000; 2000US-0189874P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 26-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 11-JUL-2000; 2000US-0217496P.  
PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225266P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226682P.  
PR 22-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230437P.



XX Homo sapiens.  
OS  
XX  
PN BP1033401-A2.  
XX  
XX  
PD 06-SEP-2000.  
XX  
PF 21-FEB-2000; 2000EP-00200610.  
XX  
PR 26-FEB-1999; 99US-0122487P.  
XX  
XX (GENSET ) GENSET.  
XX  
PI Dumas Milne Edwards J, Duclert A, Giordano J;  
XX  
DR WPI; 2000-500381/45.  
XX  
XX  
PT New nucleic acid that is a 5' expressed sequence tag (5' EST) for  
PT obtaining cDNAs and genomic DNAs that correspond to 5' ESTs and for  
PT diagnostic, forensic, gene therapy and chromosome mapping procedures.  
XX  
XX  
PS Claim 1; SEQ ID NO 25910; 71bp + Sequence Listing; English.  
XX  
XX The present sequence is one of a large number of 5' ESTs derived from  
CC mRNAs encoding secreted proteins. No ORF has yet been conclusively  
CC identified within the present sequence. The 5' ESTs were prepared from  
CC total human RNAs or polyA+ RNAs derived from 30 different tissues. EST  
CC sequences usually correspond mainly to the 3' untranslated region (UTR)  
CC of the mRNA because they are often obtained from oligo-dT primed cDNA  
CC libraries. Such ESTs are not well suited for isolating cDNA sequences  
CC derived from the 5' ends of mRNAs and even in those cases where longer  
CC cDNA sequences have been obtained, the full 5' UTR is rarely included. 5'  
CC ESTs are derived from mRNAs with intact 5' ends and can therefore be used  
CC to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used in  
CC diagnostic, forensic, gene therapy and chromosome mapping procedures.  
CC They are used to obtain upstream regulatory sequences and to design  
CC expression and secretion vectors  
XX  
SQ Sequence 145 BP; 25 A; 48 C; 38 G; 32 T; 0 U; 2 Other;  
XX  
Query Match 1.4%; Score 44; DB 3; Length 145;  
Best Local Similarity 100.0%; Pred. No. 1e-09;  
Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
XX  
Qy 3079 TGGCAGTCGACTCGAGCTGGGCAACAGAGAGACTGTGCTC 3122  
Db 47 TGGCAGTCGACTCGAGCTGGGCAACAGAGAGACTGTGCTC 4  
XX  
RESULT 196  
AAK91189  
ID AAK91189 standard; DNA; 182 BP.  
XX  
AC AAK91189;  
XX  
DT 05-NOV-2001 (first entry)  
XX  
DE Human digestive system antigen genomic sequence SEQ ID NO: 4765.  
XX  
XX Human; digestive system antigen; gene therapy; cancer; appendicitis;  
KM ulcerative colitis; infection; Hirschsprung's disease; chronic colitis;  
KM digestive system disorder; Meckel's diverticulum; de.  
XX  
XX Homo sapiens.  
XX  
XX W020015314-A2.  
XX  
XX 02-AUG-2001.  
XX  
XX 17-JAN-2001; 2001WO-US001324.  
XX  
XX 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.

PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 11-JUL-2000; 2000US-0217496P.  
PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225133P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225266P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 14-AUG-2000; 2000US-0225799P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226682P.  
PR 22-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230437P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232080P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 12-SEP-2000; 2000US-0231968P.  
PR 14-SEP-2000; 2000US-0232397P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 26-SEP-2000; 2000US-0234984P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235836P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236367P.  
PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0236802P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.



PR 02-OCT-2000; 2000US-0237039P.  
PR 02-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239935P.  
PR 13-OCT-2000; 2000US-0239937P.  
PR 20-OCT-2000; 2000US-0240960P.  
PR 20-OCT-2000; 2000US-0241221P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241826P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0246474P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249246P.  
PR 17-NOV-2000; 2000US-0249264P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249299P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0256719P.  
PR 06-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251866P.  
PR 08-DEC-2000; 2000US-0251869P.  
PR 08-DEC-2000; 2000US-0251989P.  
PR 08-DEC-2000; 2000US-0251990P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0259678P.  
PA (HUMA-) HUMAN GENOME SCI INC.  
XX  
XX  
PI Rosen CA, Barash SC, Ruben SW;  
XX  
DR WPI; 2001-502630/55.  
XX  
PT Polynucleotides encoding digestive system antigens, useful for  
XX diagnosing, treating, preventing and/or prognosing disorders of the  
PT digestive system, particularly cancer and cancer metastases.  
XX  
PS Diecloure; SEQ ID NO 4765; 986pp; English.

XX  
CC The present invention provides the protein and coding sequences of a  
CC number of human digestive system antigens. These can be used in the  
CC diagnosis, treatment and prevention of digestive system disorders,  
CC including cancer, Meckel's diverticulum, bacterial or parasitic  
CC infections, appendicitis, Hirschsprung's disease, chronic colitis or  
CC ulcerative colitis. The present sequence is a genomic DNA fragment  
XX encoding a digestive system antigen of the invention  
SQ Sequence 182 BP; 48 A; 44 C; 55 G; 35 T; 0 U; 0 Other;  
Query Match 1.4%; Score 44; DB 4; Length 182;  
Best Local Similarity 100.0%; Pred. No. 1e-09;  
Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 3078 GTGCCACTGTCACCTCCAGCTGGGCAACAGACAGACTCTCTCT 3121  
Db 139 GTGCCACTGTCACCTCCAGCTGGGCAACAGACAGACTCTCTCT 182  
RESULT 197  
AA532121  
ID AA532121 standard; DNA; 182 BP.  
XX  
AC AA532121;  
XX  
DT 04-DEC-2001 (first entry)  
XX  
DE Human liver associated genomic DNA #295.  
XX  
KW Liver associated protein; human; mouse; rabbit; goat; horse; cat; dog;  
KW chicken; sheep; immunosuppressive; antiarthritic; vasotropic;  
KW antihumetic; antiproliferative; cytostatic; cardiant; neuroprotective;  
KW cerebroprotective; nootropic; antibacterial; virinide; fungicide; cancer;  
KW ophthalmological; vulntrary; gene therapy; autoimmune disease; neoplasm;  
KW hyperproliferative disorder; breast; liver; cardiovascular disorder; ds;  
KW cerebrovascular disorder; nervous system disorder; bacterial infection;  
KW fungal infection; viral infection; ocular disorder; endocrine disorder;  
KW gastrointestinal disorder; renal disorder; respiratory disorder;  
KW wound healing; skin aging; organ transplantation; tissue regeneration;  
XX anti-infertility.  
XX OS Homo sapiens.  
XX  
XX  
XX WO200155355-A1.  
XX  
PD 02-AUG-2001.  
XX  
PP 17-JAN-2001; 2001WO-US001351.  
XX  
XX 31-JAN-2000; 2000US-0179065P.  
XX 04-FEB-2000; 2000US-0180628P.  
XX 24-FEB-2000; 2000US-0184664P.  
XX 02-MAR-2000; 2000US-0186350P.  
XX 16-MAR-2000; 2000US-0189874P.  
XX 17-MAR-2000; 2000US-0190076P.  
XX 18-APR-2000; 2000US-0198123P.  
XX 19-MAY-2000; 2000US-0205515P.  
XX 07-JUN-2000; 2000US-0209467P.  
XX 28-JUN-2000; 2000US-0214886P.  
XX 30-JUN-2000; 2000US-0215135P.  
XX 07-JUL-2000; 2000US-0216647P.  
XX 07-JUL-2000; 2000US-0216880P.  
XX 11-JUL-2000; 2000US-0217487P.  
XX 11-JUL-2000; 2000US-0217496P.  
XX 14-JUL-2000; 2000US-0218290P.  
XX 26-JUL-2000; 2000US-0220963P.  
XX 26-JUL-2000; 2000US-0220964P.  
XX 14-AUG-2000; 2000US-0224518P.  
XX 14-AUG-2000; 2000US-0224519P.  
XX 14-AUG-2000; 2000US-0225213P.  
XX 14-AUG-2000; 2000US-0225214P.  
XX 14-AUG-2000; 2000US-0225266P.

PR 14-AUG-2000; 2000US-0225267P.  
 PR 14-AUG-2000; 2000US-0225268P.  
 PR 14-AUG-2000; 2000US-0225270P.  
 PR 14-AUG-2000; 2000US-0225447P.  
 PR 14-AUG-2000; 2000US-0225757P.  
 PR 14-AUG-2000; 2000US-0225758P.  
 PR 14-AUG-2000; 2000US-0225759P.  
 PR 18-AUG-2000; 2000US-0226279P.  
 PR 22-AUG-2000; 2000US-0226681P.  
 PR 22-AUG-2000; 2000US-0226686P.  
 PR 22-AUG-2000; 2000US-0227182P.  
 PR 23-AUG-2000; 2000US-0227009P.  
 PR 30-AUG-2000; 2000US-0228924P.  
 PR 01-SEP-2000; 2000US-0229287P.  
 PR 01-SEP-2000; 2000US-0229343P.  
 PR 01-SEP-2000; 2000US-0229344P.  
 PR 01-SEP-2000; 2000US-0229345P.  
 PR 05-SEP-2000; 2000US-0229309P.  
 PR 05-SEP-2000; 2000US-0229513P.  
 PR 06-SEP-2000; 2000US-0230437P.  
 PR 06-SEP-2000; 2000US-0230438P.  
 PR 08-SEP-2000; 2000US-0231242P.  
 PR 08-SEP-2000; 2000US-0231243P.  
 PR 08-SEP-2000; 2000US-0231244P.  
 PR 08-SEP-2000; 2000US-0231413P.  
 PR 08-SEP-2000; 2000US-0232080P.  
 PR 08-SEP-2000; 2000US-0232081P.  
 PR 12-SEP-2000; 2000US-0231968P.  
 PR 14-SEP-2000; 2000US-0232337P.  
 PR 14-SEP-2000; 2000US-0232338P.  
 PR 14-SEP-2000; 2000US-0232339P.  
 PR 14-SEP-2000; 2000US-0232400P.  
 PR 14-SEP-2000; 2000US-0232401P.  
 PR 14-SEP-2000; 2000US-0233063P.  
 PR 14-SEP-2000; 2000US-0233064P.  
 PR 14-SEP-2000; 2000US-0233065P.  
 PR 21-SEP-2000; 2000US-0234223P.  
 PR 21-SEP-2000; 2000US-0234274P.  
 PR 25-SEP-2000; 2000US-0234997P.  
 PR 25-SEP-2000; 2000US-0234998P.  
 PR 26-SEP-2000; 2000US-0234984P.  
 PR 27-SEP-2000; 2000US-0235834P.  
 PR 27-SEP-2000; 2000US-0235835P.  
 PR 29-SEP-2000; 2000US-0236327P.  
 PR 29-SEP-2000; 2000US-0236328P.  
 PR 29-SEP-2000; 2000US-0236358P.  
 PR 29-SEP-2000; 2000US-0236359P.  
 PR 29-SEP-2000; 2000US-0236370P.  
 PR 02-OCT-2000; 2000US-0236802P.  
 PR 02-OCT-2000; 2000US-0237037P.  
 PR 02-OCT-2000; 2000US-0237038P.  
 PR 02-OCT-2000; 2000US-0237039P.  
 PR 02-OCT-2000; 2000US-0237040P.  
 PR 13-OCT-2000; 2000US-0239355P.  
 PR 13-OCT-2000; 2000US-0239357P.  
 PR 20-OCT-2000; 2000US-0240960P.  
 PR 20-OCT-2000; 2000US-0241221P.  
 PR 20-OCT-2000; 2000US-0241785P.  
 PR 20-OCT-2000; 2000US-0241786P.  
 PR 20-OCT-2000; 2000US-0241787P.  
 PR 20-OCT-2000; 2000US-0241808P.  
 PR 20-OCT-2000; 2000US-0241809P.  
 PR 20-OCT-2000; 2000US-0241826P.  
 PR 01-NOV-2000; 2000US-0244617P.  
 PR 08-NOV-2000; 2000US-0246474P.  
 PR 08-NOV-2000; 2000US-0246475P.  
 PR 08-NOV-2000; 2000US-0246476P.  
 PR 08-NOV-2000; 2000US-0246477P.  
 PR 08-NOV-2000; 2000US-0246478P.  
 PR 08-NOV-2000; 2000US-0246523P.  
 PR 08-NOV-2000; 2000US-0246524P.  
 PR 08-NOV-2000; 2000US-0246525P.

PR 08-NOV-2000; 2000US-0246526P.  
 PR 08-NOV-2000; 2000US-0246527P.  
 PR 08-NOV-2000; 2000US-0246528P.  
 PR 08-NOV-2000; 2000US-0246532P.  
 PR 08-NOV-2000; 2000US-0246533P.  
 PR 08-NOV-2000; 2000US-0246539P.  
 PR 08-NOV-2000; 2000US-0246610P.  
 PR 08-NOV-2000; 2000US-0246611P.  
 PR 08-NOV-2000; 2000US-0246613P.  
 PR 17-NOV-2000; 2000US-0249207P.  
 PR 17-NOV-2000; 2000US-0249208P.  
 PR 17-NOV-2000; 2000US-0249209P.  
 PR 17-NOV-2000; 2000US-0249210P.  
 PR 17-NOV-2000; 2000US-0249211P.  
 PR 17-NOV-2000; 2000US-0249212P.  
 PR 17-NOV-2000; 2000US-0249213P.  
 PR 17-NOV-2000; 2000US-0249214P.  
 PR 17-NOV-2000; 2000US-0249215P.  
 PR 17-NOV-2000; 2000US-0249216P.  
 PR 17-NOV-2000; 2000US-0249217P.  
 PR 17-NOV-2000; 2000US-0249218P.  
 PR 17-NOV-2000; 2000US-0249244P.  
 PR 17-NOV-2000; 2000US-0249245P.  
 PR 17-NOV-2000; 2000US-0249264P.  
 PR 17-NOV-2000; 2000US-0249265P.  
 PR 17-NOV-2000; 2000US-0249297P.  
 PR 17-NOV-2000; 2000US-0249299P.  
 PR 17-NOV-2000; 2000US-0249300P.  
 PR 01-DEC-2000; 2000US-0250160P.  
 PR 01-DEC-2000; 2000US-0250391P.  
 PR 05-DEC-2000; 2000US-0251030P.  
 PR 05-DEC-2000; 2000US-0251088P.  
 PR 05-DEC-2000; 2000US-0256719P.  
 PR 06-DEC-2000; 2000US-0251479P.  
 PR 08-DEC-2000; 2000US-0251856P.  
 PR 08-DEC-2000; 2000US-0251868P.  
 PR 08-DEC-2000; 2000US-0251869P.  
 PR 08-DEC-2000; 2000US-0251899P.  
 PR 11-DEC-2000; 2000US-0251990P.  
 PR 11-DEC-2000; 2000US-0254097P.  
 PR 05-JAN-2001; 2001US-0259678P.  
 (HUMA-) HUMAN GENOME SCI INC.  
 PA Rosen CA, Barash SC, Ruben SM;  
 PI WPI; 2001-457728/49.  
 XX Isolated nucleic acid molecule encoding a human liver related protein is  
 XX used in preventing, treating or ameliorating disorders of the liver  
 XX particularly cancer of the liver.  
 PS Claim 1; SEQ ID NO 597; 526pp; English.  
 XX Sequences AAS31827-AAS32182 represent genomic DNA molecules, which encode  
 CC the liver associated polypeptides of the invention. Liver associated  
 CC polypeptides and their associated polynucleotides are useful in the  
 CC diagnosis, treatment and prevention of various types of disorders in e.g.  
 CC humans, mice, rabbits, goats, horses, cats, dogs, chickens or sheep. A  
 CC pathological condition can be determined by detecting the presence or  
 CC absence of a mutation in a liver associated polynucleotide. The treatable  
 CC disorders include autoimmune diseases such as rheumatoid arthritis,  
 CC hyperproliferative disorders such as neoplasms of the breast or liver,  
 CC cardiovascular disorders such as cardiac arrest, cerebrovascular  
 CC disorders such as cerebral ischaemia, nervous system disorders such as  
 CC Alzheimer's disease, infections caused by bacteria, viruses and fungi,  
 CC alular disorders such as corneal infection, endocrine disorders such as  
 CC premature labour and infertility, gastrointestinal disorders such as  
 CC Crohn's disease, renal disorders such as glomerulonephritis and  
 CC respiratory disorders such as asthma and pleurisy. The polypeptides can  
 CC also be used to aid wound healing, to prevent skin aging due to sunburn,  
 CC to maintain organs before transplantation, to regenerate tissues and in  
 CC chemotaxis. Note: The sequence data for this patent did not form part of  
 CC the printed specification, but was obtained in electronic format directly

CC from WIPO at ftp.wipo.int/pub/published\_pct\_sequences  
XX Sequence 182 BP; 48 A; 44 C; 55 G; 35 T; 0 U; 0 Other;  
SQ  
Query Match 1.4%; Score 44; DB 5; Length 182;  
Best Local Similarity 100.0%; Pred. No. 1e-09;  
Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 3078 GTGCCACTGCACTCCAGCTGGGCAACAGACAGACTCTGCT 3121  
DB 139 GTGCCACTGCACTCCAGCTGGGCAACAGACAGACTCTGCT 182  
RESULT 198  
ABN90476  
ID ABN90476 standard; DNA; 182 BP.  
AC ABN90476;  
XX  
XX 24-JUL-2002 (first entry)  
DT  
XX  
DE Human liver antigen HHLAB49 genomic sequence. SEQ ID NO:597.  
XX  
XX Human; liver antigen; liver disorder; hepatic disorder; infection;  
KW hepatitis; viral; parasitic; bacterial; fungal; inflammatory condition;  
KW cirrhosis; granulomatous hepatitis; toxin damage; drug damage;  
KW autoimmune disease; Wilson's disease; primary biliary cirrhosis;  
KW neoplastic disorder; cancer; tumour; portal hypertension;  
KW gastrointestinal disorder; hepatitis; drug screening; gene therapy;  
KW chromosome mapping; forensic analysis; antibody preparation;  
KW hepatotropic; cytosolic; antiinflammatory; virulence; antibacterial;  
KW fungicide; parasiticicide; antidote; immunosuppressive; gene; ds.  
XX  
XX  
OS Homo sapiens.  
XX  
XX US2002042096-A1.  
XX  
XX 11-APR-2002.  
PD  
XX  
XX 17-JAN-2001; 2001US-00764887.  
PF  
XX  
XX 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 11-JUL-2000; 2000US-0217496P.  
PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 22-AUG-2000; 2000US-0226688P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0228287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234977P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 29-SEP-2000; 2000US-0236327P.

PR 29-SEP-2000; 2000US-0236367P.  
PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0236802P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 02-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239935P.  
PR 20-OCT-2000; 2000US-0240960P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 17-NOV-2000; 2000US-0244929P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251868P.  
PR 08-DEC-2000; 2000US-0251869P.  
XX  
XX (ROSEN/) ROSEN C A.  
PA (RUBEN/) RUBEN S M.  
PA (BARA/) BARASH S C.  
XX  
XX Rosen CA, Ruben SM, Barash SC;  
PI  
XX  
XX WPI, 2002-381944/41.  
DR  
XX  
XX New nucleic acid encoding human liver antigens, useful for diagnosis,  
PT treatment and prevention of e.g. hepatitis and hepatic cancer, also  
PT related polypeptides and antibodies.  
XX  
XX  
PS Disclosure; SEQ ID NO 597; 181bp; English.  
XX  
XX  
XX The invention relates to 145 novel human liver antigens (ABP40831-  
CC ABP40975) and to cDNAs encoding them (ABN90036-ABN90180), and also  
CC encompasses polypeptides 90% identical and polynucleotides 95% identical  
CC to the sequences of the invention. The invention additionally relates to  
CC recombinant vectors and host cells comprising human liver antigen  
CC polynucleotides, antibodies against human liver antigens, and the use of  
CC liver antigen polynucleotides and polypeptides in diagnosing, treating,  
CC prognosing or preventing various disorders of the liver. Such conditions  
CC include viral infections (e.g., cytomegalovirus, Epstein-Barr virus,  
CC hepatitis A virus, hepatitis B virus and hepatitis C virus), parasitic  
CC infections (e.g., Clonorchis sinensis, Echinococcus granulosus and  
CC Entamoeba histolytica), and also bacterial and fungal infections. Other  
CC disorders that may be treated include inflammatory conditions (e.g.,  
CC cirrhosis and granulomatous hepatitis), damage caused by drugs or toxins,  
CC autoimmune diseases (e.g., Wilson's disease, primary biliary cirrhosis,  
CC neoplastic disorders (e.g., adenomas, hemangiomas and hepatocellular  
CC carcinoma), portal hypertension, or gastrointestinal disorders (e.g.,  
CC peptic ulcers, gastritis and peritoneal diseases). Liver antigen  
CC polypeptides and polynucleotides may also be used in screening for  
CC compounds which modulate liver antigen expression or activity. The  
CC polynucleotides may further be used for gene therapy, chromosome mapping,  
CC in the identification of individual and in forensic analysis, and the  
CC polypeptides may be used as molecular weight markers or to prepare  
CC antibodies useful in disease diagnosis, drug targeting and phenotyping.  
CC Sequences ABN90182-ABN90537 represent human liver antigen genomic  
CC sequences. Note: The sequence data for this patent did not form part of  
CC the printed specification, but was obtained in electronic format directly  
CC from the USPTO at seqdata.uspto.gov/sequence/  
XX  
XX  
SQ Sequence 182 BP; 48 A; 44 C; 55 G; 35 T; 0 U; 0 Other;  
QY  
Query Match 1.4%; Score 44; DB 6; Length 182;  
Best Local Similarity 100.0%; Pred. No. 1e-09;  
Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
DB 3078 GTGCCACTGCACTCCAGCTGGGCAACAGACAGACTCTGCT 3121  
139 GTGCCACTGCACTCCAGCTGGGCAACAGACAGACTCTGCT 182

RESULT 199  
ADJ15389  
ID ADJ15389 standard; DNA; 182 BP.  
XX  
AC ADJ15389;  
XX  
DT 20-MAY-2004 (first entry)  
XX  
DE Human liver-related genomic DNA - SEQ ID 597.  
XX  
KW liver; vitruide; fungicide; antibacterial; antiparasitic; hepatotropic;  
KW antiinflammatory; cytostatic; litholytic; antirheumatic; antithrombotic;  
KW neuroprotective; antidiabetic; anticoagulant; thrombolytic;  
KW antidiabetic; cardiac; haemostatic; antiarrhythmic;  
KW ophthalmological; antiatherosclerotic; vasotropic; osteopathic;  
KW noctropic; antiparkinsonian; anticonvulsant; neuroleptic; vasotropic;  
KW cytostatic; gynaecological; viral; fungal; bacterial;  
KW parasitic infection; cirrhosis; Wilson's disease;  
KW gastrointestinal disorder; pancreatic; gallbladder; immune; blood;  
KW hyperproliferative; cardiovascular; respiratory; musculoskeletal system;  
KW neurological; endocrine; reproductive system; developmental; inherited;  
KW human; da.  
XX  
OS Homo sapiens.  
XX  
PN US200307602-A1.  
XX  
PD 24-Apr-2003.  
XX  
PF 14-FEB-2002; 2002US-00073961.  
XX  
PR 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205151P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 11-JUL-2000; 2000US-0217496P.  
PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225266P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226686P.  
PR 22-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.

PR 06-SEP-2000; 2000US-0230437P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232080P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 12-SEP-2000; 2000US-0231968P.  
PR 14-SEP-2000; 2000US-0232397P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234232P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 25-SEP-2000; 2000US-0235484P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235836P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236367P.  
PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0236802P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 02-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239935P.  
PR 13-OCT-2000; 2000US-0239937P.  
PR 20-OCT-2000; 2000US-0240960P.  
PR 20-OCT-2000; 2000US-0241221P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241826P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0246474P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.

Query Match	1.4%;	Score 44;	DB 11;	Length 182;
Best Local Similarity	100.0%;	Pred. No. 1e-09;		
Matches 44;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0
3078 GTGGCACTGCACCTCCAGCCTGGGCAAGAGCAAGACTCTGTCT	3121			
139 GTGGCACTGCACCTCCAGCCTGGGCAAGAGCAAGACTCTGTCT	182			
AAK87671/c				
AAK87671 standard; DNA; 307 BP.				
AAK87671;				
07-NOV-2001 (first entry)				

PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 26-SEP-2000; 2000US-0235484P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235836P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236367P.  
PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 02-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239353P.  
PR 13-OCT-2000; 2000US-0239357P.  
PR 20-OCT-2000; 2000US-0240960P.  
PR 20-OCT-2000; 2000US-0241221P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241826P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0246474P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249264P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249299P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0256719P.  
PR 06-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251865P.  
PR 08-DEC-2000; 2000US-0251868P.  
PR 08-DEC-2000; 2000US-0251869P.

PR 08-DEC-2000; 2000US-0251989P.  
PR 08-DEC-2000; 2000US-0251990P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0259678P.  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX Rosen CA, Barash SC, Ruben SM;  
XX WPI; 2001-483426/52.  
XX  
XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,  
XX useful for preventing, diagnosing and/or treating cancers and metastasis.  
XX  
XX Disclosure; SEQ ID NO 42483; 3071pp + Sequence Listing; English.  
XX  
CC AAK54951 to AAK64702 encode the human immune/hematopoietic antigen (I)  
CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic  
CC activity, and can be used in gene therapy and vaccine production. (I)  
CC proteins and polynucleotides may be used in the prevention, diagnosis and  
CC treatment of diseases associated with inappropriate (I) expression. For  
CC example, they may be used to treat disorders associated with decreased  
CC expression by rectifying mutations or deletions in a patient's genome  
CC that affect the activity of (I) by expressing inactive proteins or to  
CC supplement the patient's own production of (I). Additionally, (I)  
CC polynucleotides may be used to produce the secreted (I), by inserting the  
CC nucleic acids into a host cell and culturing the cell to express the  
CC protein. (I) proteins and polynucleotides may be used to prevent,  
CC diagnose and treat immune/hematopoietic-related diseases, especially  
CC cancers and cancer metastases of hematopoietic-derived cells. AAK64703  
CC to AAK87694 represent human immune/hematopoietic antigen genomic  
CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169  
CC represent sequences used in the exemplification of the present invention  
XX

SO Sequence 307 BP; 53 A; 93 C; 69 G; 92 T; 0 U; 0 Other;  
SQ  
Query Match 1.4%; Score 44; DB 4; Length 307;  
Best Local Similarity 100.0%; Pred. No. 9.8e-10;  
Matches 44; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 3079 TGGCACTGCACTCGAGCTGGGCAACAGACCAAGACTCTCTTC 3122  
DB 74 TGGCACTGCACTCGAGCTGGGCAACAGACCAAGACTCTCTTC 31

Search completed: May 11, 2006, 04:27:01  
Job time : 1822 secs